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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 ; Search time 73.1026 Seconds
(without alignments)
7976.007 Million cell updates/sec

Title: US-09-845-416-10_COPY_1800_3120
Perfect score: 1321
Sequence: 1 cgactttocagcagttcaga.....ctaataataagccagagatc 1321

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA.*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1321	100.0	5952	4	US-09-687-875A-1
2	1310	99.2	13977	4	US-09-484-970B-60
3	1149.4	87.0	19307	3	US-08-836-022A-10
4	1149.4	87.0	19307	3	US-09-427-048A-10
5	564	42.7	6045	4	US-09-091-501B-7
6	564	42.7	10320	4	US-09-091-501B-9
7	50	3.8	7218	1	US-08-232-463-14
8	44.2	3.3	2574	4	US-09-668-313A-10
9	42.8	3.2	1690	4	US-09-620-312D-69
10	42.8	3.2	7812	3	US-09-368-590-1
11	38.6	2.9	1995	1	US-08-425-069-3
12	38.6	2.9	1995	2	US-08-317-844B-3
13	38.4	2.9	7672	4	US-09-220-132-24
14	38.2	2.9	428	4	US-09-668-313A-3
15	38.2	2.9	4439	4	US-09-668-313A-17
16	34.6	2.6	2277	1	US-08-676-967-5
17	34.6	2.6	2277	1	US-08-676-974-5
18	34.6	2.6	2277	2	US-09-098-487-5
19	34.4	2.6	1047	4	US-09-671-950-1
20	34.4	2.6	1047	4	US-09-671-950-3
21	34.4	2.6	1047	4	US-09-671-950-5
22	34.4	2.6	1047	4	US-09-671-950-7
23	34.4	2.6	1047	4	US-09-671-950-9
24	34.4	2.6	1047	4	US-09-671-950-11
25	34.4	2.6	1047	4	US-09-671-950-13
26	34.2	2.6	750	4	US-08-961-527-370
27	34.2	2.6	1620	4	US-08-858-207A-56

28	34.2	2.6	2800	2	US-08-874-138-1	Sequence 1, Appli
29	34.2	2.6	2800	2	US-08-874-138-5	Sequence 5, Appli
30	34.2	2.6	2800	3	US-08-879-941-1	Sequence 1, Appli
31	34.2	2.6	2800	3	US-08-879-941-3	Sequence 3, Appli
32	34.2	2.6	2800	4	US-09-747-116-1	Sequence 1, Appli
33	34.2	2.6	2800	4	US-09-747-116-3	Sequence 3, Appli
34	34.2	2.6	32768	4	US-08-961-527-71	Sequence 71, Appl
35	34	2.6	648	4	US-09-252-991A-10033	Sequence 10033, A
36	34	2.6	762	4	US-09-252-991A-9821	Sequence 9821, Ap
37	34	2.6	1644	4	US-09-252-991A-10161	Sequence 10161, A
38	34	2.6	2235	3	US-09-153-804-2	Sequence 2, Appli
39	33.8	2.6	1603	1	US-08-625-209A-1	Sequence 1, Appli
40	33.8	2.6	3489	2	US-08-728-323A-1	Sequence 1, Appli
41	33.8	2.6	3489	4	US-09-298-568-1	Sequence 1, Appli
42	33.8	2.6	3489	4	US-09-410-399-1	Sequence 1, Appli
43	33.8	2.6	32207	2	US-08-770-379-20	Sequence 20, Appl
44	33.8	2.6	32207	3	US-08-757-669A-20	Sequence 20, Appl
45	33.8	2.6	32207	4	US-09-230-371A-20	Sequence 20, Appl

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; APPLICANT: LIU, PAUL
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLIC
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc_feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match	100.0%;	Score 1321;	DB 4;	Length 5952;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1321;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	CGACTTTCAGGAGTTTCAGAACGAGACGATGTACATAGGCGCTTCAAGAGGGAATTGAA	60	
Db	3402	CGACTTTCAGGAGTTTCAGAACGAGACGATGTACATAGGCGCTTCAAGAGGGAATTGAA	3461	
QY	61	AACTAAAGAACCTGTATCATGAGTACTCTTGAGACTGTAGCAATATTTCTGACAGAGCA	120	
Db	3462	AACTAAAGAACCTGTATCATGAGTACTCTTGAGACTGTAGCAATATTTCTGACAGAGCA	3521	
QY	121	GCCTTTGGAAGACTAGAGAACTCTACCAGAGCCCGAGAGCTGCCTCTGAGGAGAG	180	
Db	3522	GCCTTTGGAAGACTAGAGAACTCTACCAGAGCCCGAGAGCTGCCTCTGAGGAGAG	3581	
QY	181	AGCCAGAGATGTCACCTCGGCTTCTACGAAACAGGCTGAGGAGGTCATACTGAGTGGGA	240	
Db	3582	AGCCAGAGATGTCACCTCGGCTTCTACGAAACAGGCTGAGGAGGTCATACTGAGTGGGA	3641	
QY	241	AAATATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT	300	

Db 3642 AAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 3701

QY 301 CCAGGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGAT 360

Db 3702 CCAGGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGAT 3761

QY 361 CAAGGGATCCTGGCAGCCCCGTTGGCGATCTCCTCATTGACTCTCTCCAAGATCACCTCGA 420

Db 3762 CAAGGGATCCTGGCAGCCCCGTTGGCGATCTCCTCATTGACTCTCTCCAAGATCACCTCGA 3821

QY 421 GAAAGTCAAGGCACCTCGAGGAGAAATTCGGCTCTGAAAGAGAACGTGAGCCACGTCAA 480

Db 3822 GAAAGTCAAGGCACCTCGAGGAGAAATTCGGCTCTGAAAGAGAACGTGAGCCACGTCAA 3881

QY 481 TGACCTTGCTCGCCAGCTTACCACCTTTGGGCACTCAGCTCTCACCGTATACCTCAGCAC 540

Db 3882 TGACCTTGCTCGCCAGCTTACCACCTTTGGGCACTCAGCTCTCACCGTATACCTCAGCAC 3941

QY 541 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTCAGGTTGGCGTCGAGGACCGAGTCAG 600

Db 3942 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTCAGGTTGGCGTCGAGGACCGAGTCAG 4001

QY 601 GCAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTCTTCCACGTC 660

Db 4002 GCAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTCTTCCACGTC 4061

QY 661 TGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACCA 720

Db 4062 TGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACCA 4121

QY 721 CGAGACTCAACAACTTGCTGGGACCATCCCAAATGACAGAGCTCTACCAGTCTTTAGC 780

Db 4122 CGAGACTCAACAACTTGCTGGGACCATCCCAAATGACAGAGCTCTACCAGTCTTTAGC 4181

QY 781 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 840

Db 4182 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 4241

QY 841 GAAGGCGCTTTGCTTGGATCTCTTGAGCCTGTCTAGCTGCATGTGATGCCCTTGAGCCAGCA 900

Db 4242 GAAGGCGCTTTGCTTGGATCTCTTGAGCCTGTCTAGCTGCATGTGATGCCCTTGAGCCAGCA 4301

QY 901 CAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAGATTATTAATTGTTGACCAC 960

Db 4302 CAACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAGATTATTAATTGTTGACCAC 4361

QY 961 TATTTATGACCGCCTGGAGCAAGAGCAACAATTTGGTCAAGCTCCCTCTCTGCGTGGGA 1020

Db 4362 TATTTATGACCGCCTGGAGCAAGAGCAACAATTTGGTCAAGCTCCCTCTCTGCGTGGGA 4421

QY 1021 TATGTGTCTGAACCTGCTGATGTTTATGATACGGGACGACAGGAGGATCCGTGT 1080

Db 4422 TATGTGTCTGAACCTGCTGATGTTTATGATACGGGACGACAGGAGGATCCGTGT 4481

QY 1081 CCTGTCTTTAAACCTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAG 1140

Db 4482 CCTGTCTTTAAACCTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAG 4541

QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCCAGGCTGGGCT 1200

Db 4542 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCCAGGCTGGGCT 4601

QY 1201 CCTTCTGCATGATTTCTATCCAAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGG 1260

Db 4602 CCTTCTGCATGATTTCTATCCAAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGG 4661

QY 1261 CAGTAACATTTAGCCAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 1320

Db 4662 CAGTAACATTTAGCCAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 4721

QY 1321 C 1321

Db 4722 C 4722

RESULT 2

US-09-484-970B-60

; Sequence 60, Application US/09484970B

; Patent No. 6426186

; GENERAL INFORMATION:

; APPLICANT: Jones, Karen A.

; APPLICANT: Volkmuth, Wayne

; APPLICANT: Walker, Michael G.

; TITLE OF INVENTION: BONE REMODELING GENES

; FILE REFERENCE: PB-0014 US

; CURRENT APPLICATION NUMBER: US/09/484,970B

; CURRENT FILING DATE: 2000-01-18

; NUMBER OF SEQ ID NOS: 172

; SOFTWARE: PERL Program

; SEQ ID NO 60

; LENGTH: 13977

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1

; NAME/KEY: unsure

; LOCATION: 11721-11761, 12294, 13969

; OTHER INFORMATION: a, t, c, g, or other

US-09-484-970B-60

Query Match 99.2%; Score 1310; DB 4; Length 13977;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 1321; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 CGACTTTCAGCACTTCAGAAAGCAGAACGATGATACATAGGGCTTCAAGAGGGAATTGAA 60

Db 8716 CGACTTTCAGCACTTCAGAAAGCAGAACGATGATACATAGGGCTTCAAGAGGGAATTGAA 8775

QY 61 AACTAAGAAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCA 120

Db 8776 AACTAAGAAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCA 8835

QY 121 GCCTTTGGAAGGACTAGAGAAACTCTACCAGGAGCCAGAGAGCTGCCTCCTGAGGAGAG 180

Db 8836 GCCTTTGGAAGGACTAGAGAAACTCTACCAGGAGCCAGAGAGCTGCCTCCTGAGGAGAG 8895

QY 181 AGCCAGAAATGTCACTCGGCTTTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGA 240

Db 8896 AGCCAGAAATGTCACTCGGCTTTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGA 8955

QY 241 AAAATGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 300

Db 8956 AAAATGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 9015

QY 301 CCAGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGAT 360

Db 9016 CCAGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGAT 9075

QY 361 CAAGGATCCTGGCAGCCCCGTTGGCGATCTCCTCATTGACTCTCTCCAAGATCACCTCGA 420

Db 9076 CAAGGATCCTGGCAGCCCCGTTGGCGATCTCCTCATTGACTCTCTCCAAGATCACCTCGA 9135

QY 421 GAAAGTCAAGGCACCTCGAGGAGAAATTCGGCTCTGAAAGAGAACGTGAGCCACGTCAA 480

Db 9136 GAAAGTCAAGGCACCTCGAGGAGAAATTCGGCTCTGAAAGAGAACGTGAGCCACGTCAA 9195

QY 481 TGACCTTGCTCGCCAGCTTACCAGTTGGGCACTTGGGCACTCAGCTCTCACCGTATAACCTCAGCAC 540

Db 9196 TGACCTTGCTCGCCAGCTTACCAGTTGGGCACTTGGGCACTCAGCTCTCACCGTATAACCTCAGCAC 9255

QY 541 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCGCTCGAGGACCGAGTCAG 600

Db 9256 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCGCTCGAGGACCGAGTCAG 9315

QY 601 GCAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTCTCCACGTC 660

Db	9316	GCAGCTGCATGAAGCCACAGGCACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTC	9375
QY	661	TGTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAAGTGCCTACTATATCAACCA	720
Db	9376	TGTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAAGTGCCTACTATATCAACCA	9435
QY	721	CGAGACTCAAAACAACCTGCTGGGACCATCCCAAAATGACAGAGCTCTACCACTCTTTAGC	780
Db	9436	CGAGACTCAAAACAACCTGCTGGGACCATCCCAAAATGACAGAGCTCTACCACTCTTTAGC	9495
QY	781	TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA	840
Db	9496	TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA	9555
QY	841	GAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTGGACCAGCA	900
Db	9556	GAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTGGACCAGCA	9615
QY	901	CAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCTGCAGATTATTAATGTTGACCAAC	960
Db	9616	CAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCTGCAGATTATTAATGTTGACCAAC	9675
QY	961	TATTATGACCGCCTGGAGCAAGACACAACAAATTTGGTCAACGTCCTCTCTGCGTGGA	1020
Db	9676	TATTATGACCGCCTGGAGCAAGACACAACAAATTTGGTCAACGTCCTCTCTGCGTGGA	9735
QY	1021	TATGTCCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGT	1080
Db	9736	TATGTCCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGT	9795
QY	1081	CCGTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAGAGCAAGTACAG	1140
Db	9796	CCGTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAGAGCAAGTACAG	9855
QY	1141	ATACCTTTTCAAGCBAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCT-GGGCC	1199
Db	9856	ATACCTTTTCAAGCBAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGGCC	9915
QY	1200	TCCTTCTGCATGATTTCTATCCAATTTCCAAGACAGTTGGGTGAAGTTGCATCTTTGGGG	1259
Db	9916	TCCTTCTGCATGATTTCTATCCAATTTCCAAGACAGTTGGGTGAAGTTGCATCTTTGGGG	9975
QY	1260	GCAGTAACATTGAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGA	1319
Db	9976	GCAGTAACATTGAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGA	10035
QY	1320	TC 1321	
Db	10036	TC 10037	

RESULT 3

US-08-836-022A-10/c

; Sequence 10, Application US/08836022A

Patent No. 6001557

; GENERAL INFORMATION:

; APPLICANT: Trustees of the University of Pennsylvania

APPLICANT: Wilson, James M.

APPLICANT: Fisher, Krishna J.

; · APPLICANT: Chen, Shu-Jen

; APPLICANT: Weitzman, Matthew

TITLE OF INVENTION: Improved Adenovirus Virus and

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

ADDRESSEE: HOWSON AND HOWSON

STREET: Spring House Corporate Cntr, P O Box 457

CITY: Spring House

STATE: Pennsylvania

COUNTRY: USA
RTD: 10477

COMPTON
//76T
ZIP: 77

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Ejector

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; MEDIUM TYPE: FLOPPY disk

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVPN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA
; US-08-836-022A-10

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Query Match 87.0%; Score 1149.4; DB 3; Length 19307;

Best Local Similarity 92.0%; Pred. No. 0;

Matches 1213; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY	2	GACTTTCAGCAGGTTTCAGAAGCAGAAACGGATGTACATAGGCCTTCAAGAGGGAATTGAAA	61
Db	5977	GATTCCACGCGTTTCAGAAGCAGAAATGATATACATAGGCCTTCAAGAGGGAATTGAAA	5918
QY	62	ACTAAGAGAACCTGTAATCATATGAGTACTCTTGAGACTGTACGAATAATTTCTGACAGAGCAG	121
Db	5917	ACTAAGAGAACCTGTAATCATATGAGTACTCTGAGACTGTGAGAAATATTTCTGACAGAGCAG	5858
QY	122	CCTTTGGAAGGACTAGAGAAACTCTACCAGAGGCCAGAGAGCTGCCTCTCTGAGGAGAGA	181
Db	5857	CCTTTGGAAGGACTAGAGAAACTCTACCAGAGGCCAGAGAACTGCCTCTCTGAAGAAAGA	5798
QY	182	GCCCAGAAATGTCACCTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAA	241
Db	5797	GCTCAGAAATGTCACCTCGGCTTCTACGAAAGCAGGCTGAAGAGGTCAACGGTGAATGGGAC	5738
QY	242	AAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGAGACCCCTTCAAAGACTC	301
Db	5737	AAATTGAACCTGCGCTCAGCTGATTGGCAGAGAAAAATAGATGAAGCTCTTGAAGAGACTC	5678
QY	302	CAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATC	361
Db	5677	CAGGAACCTTCAAGGAAGCTGCGGATGAACCTGGACCTCAAGTTGCGCCCAAGCTGAGGTGATC	5618
QY	362	AAGGGATCCTTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAG	421
Db	5617	AAGGGATCCTTGGCAGCCAGTGGGGGATCTCCTCATTTGACTCTCTGCAAGATCACCTTGAA	5558
QY	422	AAAGTCAAGGCACCTTCGAGGAGAAATTTGGCGCTCTGAAAGAGAACGTTGAGCCACGTCAAT	481
Db	5557	AAAGTCAAGGCACCTTCGGSGAGAAATTTGCACCTCTTAAAGAGAAATGTCAATCGTGTCAAT	5498
QY	482	GACCTTGTCTGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCCGTATAACCTCAGCACT	541
Db	5497	GACCTTGCACATCAGCTGACCACACTGGGGCATTCAGCTCTCACCTTATAACCTCAGCACT	5438
QY	542	CTGGAAGACCTGAAACACACAGATGGAAGCTTCTGCAAGTGGCCGTGAGGACCGAGTCAGG	601
Db	5437	TGGAAGATCTGAATACCAAGATGGAGGCTTCTACAGGTGGCTGTGGAGGACCGTGTGACA	5378
QY	602	CAGCTGCATGAAGCCCCACAGGACCTTTGTGCCAGCATCTCAGCACTTTCTTTCCACGTCT	661
Db	5377	CAGCTGCATGAAGCCCCACAGGACCTTTGTCTGTCATCCAGCACTTCTCTTCCACTTCA	5318


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QY 722 GAGACTCAAACTTCTGGGACCATCCAAAATGACAGAGCTCTACCAGTCTTAGCT 781
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Db 5257 GAGACCCAAACCACTTGTGGACCAACCCAAAATGACAGAGCTCTACCAGTCTTAGCT 5198

QY 782 GACCTGAATAATGTCTAGATCTCTCAGCTTATAGGACTGCCATGAACTCCGAAGAGTGCAG 841
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Db 5197 GACCTGAATAATGTCTAGATCTCTCAGCTTATAGGACTGCCATGAACTCCGAAGAGTGCAG 5138

QY 842 AAGGCCCTTCTGCTGGATCTCTTGAGCCCTGTCTCAGCTGCATGTGATGCCCTTGGACAGCAC 901
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Db 5137 AAGGCCCTTCTGCTGGATCTCTTGAGCCCTGTCTCAGCTGCATGTGATGCCCTTGGACAGCAC 5078

QY 902 AACCTCAAGCAAAATGACAGCCCATGGATATCTCTGAGATTATTGTTGACCACT 961
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Db 5017 ATTTATGATCGTCTGGAGCAAGAGCACAACTCTGFTCAATCTGFTCAATCTCTGCTGGAT 4958

QY 1022 ATGTGTCTGAACCTGGCTGCTGAATGTTTATGATACGAGCAAGAGGAGGATCCGTGTC 1081
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Db 4957 ATGTGTCTGAACCTGGCTTCTCAATGTTTATGATACGAGCAAGAGGAGGATCCGTGTC 4898

QY 1082 CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGA 1141
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Db 4897 CTGTCTTTTAAACTGGCATCATTTCTCTGTGTAAAGCACACTTGGAGACAAAGTACAGA 4838

QY 1142 TACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGTGACCAGCCAGGCTGGGCCCTC 1201
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Db 4837 TACCTTTTCAAGCAAGTGGCAAGTTCACAGTGGCTTTTGTGACCAGCGTAGGCTGGTCTT 4778

QY 1202 CTTCTGCATGATCTTATCCAAAATCCAAACAGAGTTGGGTGAAGTTGCATCTCTTGGGGGC 1261
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Db 4777 CTTCTGCATGATCTTATCCAAATCCAAAGACAGTTGGGTGAAGTTGCTTCTTGGGGGC 4718

QY 1262 AGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAATTGCTAATAAAGCCAGAGAT 1320
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Db 4717 AGTAACATTGAGCCCGAGTGTGAGGAGCTGCTTCCAATTGCTAATAAACCCTGAGAT 4659
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RESULT 5
US-09-091-501B-7
; Sequence 7, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 7
; LENGTH: 6045
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(6037)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chimeric
; FEATURE:
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; NAME/KEY: misc_feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-7

Query Match 42.7%; Score 564; DB 4; Length 6045;
Best Local Similarity 64.7%; Pred. No. 1.1e-172;
Matches 859; Conservative 0; Mismatches 460; Indels 9; Gaps 1;

QY 2 GACTTTCAGCAGTTTCAGAAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAA 61
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Db 3506 GATGTTCCAGCCCTTACAGCTCCAGTATGACCATTGTAAGGCCCTGAGACGGGAGTTAAG 3565

QY 62 ACTAAAGAACCTGTAAATCATGATGACTCTTGTAGACTGTACGAATATTTCTGACAGAGCAG 121
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Db 3566 GAGAAAGAATATTCTGTCTCTGAATGCTGTGACCCAGGCCCGAGTTTCTTGGCTGATCAG 3625

QY 122 CTTTGGAAAGGACTAGAGAAAACCT-----CTACAGAGGCCAGAGAGCTGCTCCT 172
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Db 3626 CCAATTGAGGCCCTTGAAGAGCCCAAGAGAAACCTTACAATCAAAAACAGAAATTAACCTCT 3685

QY 173 GAGGAGAGAGCCCGAGAAATGTCTACTCGGCTTCTACGAAAAGCAGGCTGAGGAGGTCAATACT 232
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QY 233 GAGTGGGAAAAATTGAACTGTCACCTCGCTGACTGCTGACGAGAGAGAAAATAGATGAGACCCCTT 292
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Db 3746 AAATGGGAAAGTCTAAATGCTGTAACTAGCAATTGCGAAAAGCAACTGGACAAAGGCATTTG 3805

QY 293 GAAAGACTCCAGGAACCTCAAGAGGGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCT 352
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QY 473 CACGTCAATGACCTTGTCTGCCAGCTTACCACCTTTTGGGCATTTCAGCTCTCACCGTATAAC 532
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Db 4046 TCTCGCCAGCTAGATGACCTTAATATGCGATGGAACCTTTTACAGGTTTCTGTGGATGAT 4105

QY 593 CGAGTCAGCAGCTGCATGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGCACTTCTT 652
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QY 833 AGACTGCAGAGGCCCTTGTCTGGATCTCTTGTAGCCTGTGACGTGATGTGATGCCCTTG 892
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Db 4346 AGACTACAAAAAGCAGTATGTTGGATCTCTTAGAGTTGAGTACAAATGAATTTTC 4405

QY 893 GACCAGCAAACTCAAGCAAAATGACAGCCCATGATATCTCGAGATTATTAATTGT 952
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Db 4406 AAACAGCACAAAGTTGAACCAAAATGACAGACTCTCTCAGTGTTCAGAGATGTCATCAACTGT 4465
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ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1447-106P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
TELEFAX: (703) 205-8050
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1995 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
IMMEDIATE SOURCE:
CLONE: p6B
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1785
US-08-425-069-3.

Query Match      2.9%; Score 38.6; DB 1; Length 1995;
Best Local Similarity 44.0%; Pred. No. 0.048;
Matches 164; Conservative 0; Mismatches 209; Indels 0; Gaps 0;

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Db 791 CAGGACAAACAGGACCATCTGGACCCGGTAGTCCCGCTGACAGAGCAGCCCGGAGGATATGGAC 850

QY 131 GGACTAGAGAAACTCTACAGAGAGCCCGCAGAGAGCTGCCCTCTGAGGAGAGAGCCCGAGAA 190
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Db 851 GACCTGGAGGATATGGACCCCGCTGACACAAAGGACCCCGGAGGATATGGACCAACAAGGAT 970

QY 191 GTCACCTCCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAATTTGAAAC 250
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QY 251 CTGCACTCCGCTGACTGGCAGAGAAAATATGATGAGACCCCTTGAAGACTCCAGGAACTT 310
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QY 311 CAAGAGGCCACGGATGAGCTGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCC 370
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QY 371 TGGCAGCCCGTGG 383
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Db 1091 AAGGACCAAGGAGG 1103

RESULT 12
US-08-317-844B-3
; Sequence 3, Application US/08317844B
; Patent No. 5989894
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Xu, Ming
; APPLICANT: Himman, Michael B.
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: 301 No. 5989894th Washington Street
; CITY: Falls Church
; STATE: Virginia
```

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COUNTRY: U.S.A.
ZIP: 22046
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317,844B
FILING DATE: 04-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1447-105P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 241-1300
TELEFAX: (703) 241-2848
TELEX: 248345
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1995 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
IMMEDIATE SOURCE:
CLONE: p6B
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1785
US-08-317-844B-3

Query Match      2.9%; Score 38.6; DB 2; Length 1995;
Best Local Similarity 44.0%; Pred. No. 0.048;
Matches 164; Conservative 0; Mismatches 209; Indels 0; Gaps 0;

QY 11 GCAGTTCAGAGCAGACGATGTACATAGGCGCTTCAAGAGGGAATTGAAACTAAAGAA 70
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Db 731 GCAGTGCAGCTGCAGCAGCCCGCAGCAGGACCTGTGACACAAAGGACCCCGGAGGATATGGAC 790

QY 71 CCTGTAATCATGACTACTCTTGAGACTGTACGATATTTCTGACAGAGCAGCGCTTTGGAA 130
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 791 CAGGACAAACAGGACCATCTGGACCCGGTAGTCCCGCTGACAGAGCAGCCCGGAGGATATGGAC 850

QY 131 GGACTAGAGAAACTCTACAGAGAGCCCGCAGAGAGCTGCCCTCTGAGGAGAGAGCCCGAGAA 190
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 851 GACCTGGAGGATATGGACCCCGCTGACACAAAGGACCCCGGAGGATATGGACCAACAAGGAT 910

QY 191 GTCACCTCCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAATTTGAAAC 250
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QY 251 CTGCACTCCGCTGACTGGCAGAGAAAATATGATGAGACCCCTTGAAGACTCCAGGAACTT 310
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Db 971 TAGGAGTTATGGACCAAGGACCAAGGACCAAGGACCAAGGACCAAGGACCAAGGACCAAG 1030

QY 311 CAAGAGGCCACGGATGAGCTGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCC 370
    || ||||| ||| ||||| ||| ||||| ||| ||||| ||| ||||| ||| ||||| ||| |||||
Db 1031 CAGGAGGATATGGACCAAGGACCAAGGACCAAGGACCAAGGACCAAGGACCAAGGACCA 1090

QY 371 TGGCAGCCCGTGG 383
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Db 1091 AAGGACCAAGGAGG 1103

RESULT 13
US-09-220-132-24
; Sequence 24, Application US/09220132
; Patent No. 6506607
; GENERAL INFORMATION:
; APPLICANT: Shyjan, Andrew W.
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 ; Search time 112.947 Seconds
(without alignments)
7976.007 Million cell updates/sec

Title: US-09-845-416-2_COPY_960_3000
Perfect score: 2041
Sequence: 1 tccttcacagcatttgaag.....acctcagcactctggaagac 2041

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
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2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
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5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1071	52.5	5952	4	US-09-687-875A-1
2	1043.4	51.1	13977	4	US-09-484-970B-60
c 3	847.2	41.5	19307	3	US-08-836-022A-10
c 4	847.2	41.5	19307	3	US-09-427-048A-10
5	343	16.8	6045	4	US-09-091-501B-7
6	343	16.8	10320	4	US-09-091-501B-9
7	79.4	3.9	200	4	US-09-091-501B-5
8	78.6	3.9	200	4	US-09-091-501B-4
9	78.6	3.9	200	4	US-09-091-501B-6
c 10	76.6	3.8	7218	1	US-08-232-463-14
11	63.6	3.1	238	4	US-09-687-875A-13
c 12	44	2.2	1230025	4	US-09-198-452A-1
13	43.4	2.1	1179	4	US-09-107-532A-1186
14	40.4	2.0	2223	1	US-08-257-073-4
15	39.2	1.9	16995	4	US-08-961-527-82
16	38.6	1.9	1751	4	US-09-620-312D-847
17	38.6	1.9	1995	1	US-08-425-069-3
18	38.6	1.9	1995	2	US-08-317-844B-3
19	38.2	1.9	1131	6	5180810-3
20	38.2	1.9	1784	6	5180810-2
21	38.2	1.9	1848	4	US-09-134-001C-447
22	38.2	1.9	4929	4	US-09-620-312D-674
c 23	38	1.9	1394	4	US-09-247-155-76
c 24	37.4	1.8	2082	3	US-08-985-335-4
c 25	37.4	1.8	2082	3	US-09-410-372-4
c 26	37.2	1.8	2915	4	US-09-336-115C-5
c 27	37.2	1.8	3902	4	US-08-961-527-212

28	36.8	1.8	1886	6	5210183-1	Patent No. 5210183
29	36.6	1.8	1845	4	US-08-887-534A-22	Sequence 22, Appl
30	36.6	1.8	1845	4	US-09-527-431-22	Sequence 22, Appl
31	36.2	1.8	289	3	US-09-007-005-17	Sequence 17, Appl
32	36.2	1.8	289	3	US-09-244-796-17	Sequence 17, Appl
33	36.2	1.8	2447	2	US-09-014-969-14	Sequence 14, Appl
34	36.2	1.8	168575	4	US-09-426-290-1	Sequence 1, Appli
35	36	1.8	608	3	US-09-385-982-236	Sequence 236, App
36	36	1.8	2873	4	US-08-630-915A-193	Sequence 193, App
37	35.8	1.8	790	3	US-09-461-474-13	Sequence 13, Appl
38	35.6	1.7	4868	1	US-08-139-937-12	Sequence 12, Appl
39	35.6	1.7	4868	5	PCT-US93-11310-12	Sequence 12, Appl
40	35.6	1.7	7672	4	US-09-220-132-24	Sequence 24, Appl
41	35.6	1.7	8257	4	US-09-595-684B-30	Sequence 30, Appl
42	35.6	1.7	8789	1	US-08-328-254-5	Sequence 5, Appli
43	35.6	1.7	10136	1	US-08-353-700-2	Sequence 2, Appli
44	35.6	1.7	10136	5	PCT-US95-16216-2	Sequence 2, Appli
45	35.2	1.7	3466	1	US-08-468-036-38	Sequence 38, Appl

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLIC
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc_feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match	52.5%	Score 1071;	DB 4;	Length 5952;
Best Local Similarity	68.0%	Pred. No. 2.8e-314;		
Matches 2041;	Conservative	0;	Mismatches	0;
			Indels	960;
			Gaps	1;
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QY 1021 ACITGAAAGAGTACAGCACAG----- 1042

Db 1971 ACITGAAAGAGTACAGCACAGGAAACTGAAATAGCAGTTCAAGCTAAACAACCGGATGT 2030

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QY 1043 ----- 1042

Db 2451 TTTGGAAACAGAGGGCTCCCGACTTGGAAAGAACTCATTTACCGCTGCCCAAAATTTGAAAA 2510

QY 1043 ----- 1042

Db 2511 CAAGACCAGCAATCAAGAGGCTAGAACAAATCATTTACGGATCGAATTGAAAGAATTCAGAA 2570

QY 1043 ----- 1042

Db 2571 TCAGTGGGATGAAGTACAAGAACACACTTCAGAACCCGGAGGCAACAGTTGAATGAAATGTT 2630

QY 1043 ----- 1042

Db 2631 AAAGGATTCACACCAATGGCTGGAAGCTAAGSAAAGAGCTGAGCAGGTTCTAGGACAGGC 2690

QY 1043 ----- 1042

Db 2691 CAGAGCCAAGCTTGAGTCATGGAAGGAGGGTCCCTATACAGTAGATGCAATCCAAAAGAA 2750

QY 1043 ----- 1042

Db 2751 AATCACAGAAACCAAGCAGTTGGCCAAAGACCTCCGCCAGTGGCAGACAAATGTAGATGT 2810

QY 1043 ----- 1042

Db 2811 GGCAATGACTTGGCCCTGAAACTTCTCCGGGATTTATTCGCGAGATGATACCAGAAAAAGT 2870

QY 1043 ----- 1042

Db 2871 CCACATGATAACAGAGAAATATCAATGCCTCTTTGGAGAAAGCATTCATAAAAGGGTGAGTGA 2930

QY 1043 ----- 1080

Db 2931 GCGAGAGGCTGCTTTGGAAGAAACTCATAGATTAATGCAACAGTTCCCGCTGGACCTGGA 2990

QY 1081 AAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACCTGCCAATGTCTCTACAGGATGCTAC 1140

Db 2991 AAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACCTGCCAATGTCTCTACAGGATGCTAC 3050

QY 1141 CCGTAAGGAAAGGCTCTAGAAAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCA 1200

Db 3051 CCGTAAGGAAAGGCTCTAGAAAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCA 3110

QY 1201 AGACCTCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAG 1260

Db 3111 AGACCTCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAG 3170

QY 1261 CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCCTGTTACAAAAGACGTTT 1320

Db 3171 CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCCTGTTACAAAAGACGTTT 3230

QY 1321 GGATAACATGAACCTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGTCCCA 1380

Db 3231 GGATAACATGAACCTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGTCCCA 3290

QY 1381 TTTGGAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTCTGCAGAACTTCTGGT 1440

Db 3291 TTTGGAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTCTCTGCAGAACTTCTGGT 3350

QY 1441 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGAGGCACTATTGGAGGCGACTTCC 1500

Db 3351 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGAGGCACTATTGGAGGCGACTTCC 3410

QY 1501 AGCAGTTCAGAAAGCAGAACGATGTACATAGGGCCCTCAAGAGGGAATGAAAACTAAAGA 1560
Db 3411 AGCAGTTCAGAAAGCAGAACGATGTACATAGGGCCCTCAAGAGGGAATGAAAACTAAAGA 3470
QY 1561 ACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGA 1620
Db 3471 ACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGA 3530
QY 1621 AGGACTAGAGAAACTCTACCAGGAGGCCAGAGAGTGCCTCCTGAGGAGAGAGGCCAGAA 1680
Db 3531 AGGACTAGAGAAACTCTACCAGGAGGCCAGAGAGTGCCTCCTGAGGAGAGAGGCCAGAA 3590
QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTGAA 1740
Db 3591 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTGAA 3650
QY 1741 CCTGCATCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACT 1800
Db 3651 CCTGCATCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACT 3710
QY 1801 TCAAGAGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATC 1860
Db 3711 TCAAGAGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATC 3770
QY 1861 CTGGCAGCCCGTGGGGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAAGTCAA 1920
Db 3771 CTGGCAGCCCGTGGGGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAAGTCAA 3830
QY 1921 GGCACCTCGAGGAGAAATTGGCCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGC 1980
Db 3831 GGCACCTCGAGGAGAAATTGGCCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGC 3890
QY 1981 TCGCCAGGTTACCACTTTGGGCATTCAGCTCTCACCGTATACCTCAGCAGCTCTGGAAGA 2040
Db 3891 TCGCCAGGTTACCACTTTGGGCATTCAGCTCTCACCGTATACCTCAGCAGCTCTGGAAGA 3950
QY 2041 C 2041
Db 3951 C 3951

RESULT 2

US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484, 970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1
; NAME/KEY: unsure
; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60

Query Match 51.1%; Score 1043.4; DB 4; Length 13977;
Best Local Similarity 99.9%; Pred. No. 1.1e-305;
Matches 1044; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAGTCATTTGGCAGTTCAATTGATGGAGAG 60
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Db 1159 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAGTCATTTGGCAGTTCAATTGATGGAGAG 1218
QY 61 TGAAGTAAACCTGGACCGTTATCAAACAGCTTTTGAAGAAGTATTATCGTGGCTTCTTTC 120
Db 1219 TGAAGTAAACCTGGACCGTTATCAAACAGCTTTTGAAGAAGTATTATCGTGGCTTCTTTC 1278
QY 121 TGTCTGAGGACACATTCGAAGCACAAGAGAGAGATTTCTTAATGATGTGGAAGTGGTAAAGA 180
Db 1279 TGTCTGAGGACACATTCGAAGCACAAGAGAGAGATTTCTTAATGATGTGGAAGTGGTAAAGA 1338
QY 181 CCAGTTTCATCTCATGAGGGGTACATGATGGAATTTGACAGCCCATCAGGGCGGGTTGG 240
Db 1339 CCAGTTTCATCTCATGAGGGGTACATGATGGAATTTGACAGCCCATCAGGGCGGGTTGG 1398
QY 241 TAATATTTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGAAAAATTATCAGAAGATGAAGA 300
Db 1399 TAATATTTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGAAAAATTATCAGAAGATGAAGA 1458
QY 301 AACTGAAGTACAAGAGCAGATGAATCTCTTAATTTCAAGATGGGAATGCCTCAGGGTAGC 360
Db 1459 AACTGAAGTACAAGAGCAGATGAATCTCTTAATTTCAAGATGGGAATGCCTCAGGGTAGC 1518
QY 361 TAGCATGGAAAAACAAGCAATTTTACATAGAGTTTAAATGGATCTCCAGAATCAGAAAAC 420
Db 1519 TAGCATGGAAAAACAAGCAATTTTACATAGAGTTTAAATGGATCTCCAGAATCAGAAAAC 1578
QY 421 GAAAGAGTTGAATGACTGGCTAAACAAAAACAGAGAAAGAAACAGGAAAAATGGAGGAAGA 480
Db 1579 GAAAGAGTTGAATGACTGGCTAAACAAAAACAGAGAAAGAAACAGGAAAAATGGAGGAAGA 1638
QY 481 GCCTCTTGACCTGATCTTGAAGACCTTAAACGCGCAAGTACAAACACATAAGGTGCTTCA 540
Db 1639 GCCTCTTGACCTGATCTTGAAGACCTTAAACGCGCAAGTACAAACACATAAGGTGCTTCA 1698
QY 541 AGAAGATCTAGAACAAAGCAAGTCAGGGTCAATCTCTCACTCACATGTTGGTGGTAGT 600
Db 1699 AGAAGATCTAGAACAAAGCAAGTCAGGGTCAATCTCTCACTCACATGTTGGTGGTAGT 1758
QY 601 TGATGAATCTAGTGGAGATCACCGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 660
Db 1759 TGATGAATCTAGTGGAGATCACCGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 1818
QY 661 AGATCGATGGGCAACACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAAGACAT 720
Db 1819 AGATCGATGGGCAACACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAAGACAT 1878
QY 721 CCTTCTCAAAATGGCAACGCTCTTACTGAAGAACAGTGCCTTTTGTAGTCATGGCTTTCAGA 780
Db 1879 CCTTCTCAAAATGGCAACGCTCTTACTGAAGAACAGTGCCTTTTGTAGTCATGGCTTTCAGA 1938
QY 781 AAAAGAAGATGCAGTGAACAAGATTCACACAACCTGGCTTTTAAAGATCAAAAATGAAATGTT 840
Db 1939 AAAAGAAGATGCAGTGAACAAGATTCACACAACCTGGCTTTTAAAGATCAAAAATGAAATGTT 1998
QY 841 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 900
Db 1999 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 2058
QY 901 GGGCAAACTGTATTCACTCAAAACAGATCTTCTTCAACACATCAAGAAATAAGTCAGTGAC 960
Db 2059 GGGCAAACTGTATTCACTCAAAACAGATCTTCTTCAACACATCAAGAAATAAGTCAGTGAC 2118
QY 961 CCAGAAGACGGAAGATGGCTGGATAAATTTGCCCGGTGTTGGGATAAATTAGTCCAAAA 1020
Db 2119 CCAGAAGACGGAAGATGGCTGGATAAATTTGCCCGGTGTTGGGATAAATTAGTCCAAAA 2178
QY 1021 ACTTGAAGAGAGTACAGCACAGACT 1045
Db 2179 ACTTGAAGAGAGTACAGCACAGATT 2203

RESULT 3
US-08-836-022A-10/C

; Sequence 10, Application US/08836022A
; Patent No. 6001557
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVPN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: CDNA
; US-08-836-022A-10

Query Match 41.5%; Score 847.2; DB 3; Length 19307;
Best Local Similarity 88.6%; Pred. No. 5e-246;
Matches 918; Conservative 0; Mismatches 118; Indels 0; Gaps 0;
QY 1005 ATAAATTAGTCCAAAACCTTGAAAGAGTACAGACAGACTCATAGATTACTGCAACAGT 1064
Db 6465 ATAAAGAGTAACTGAGCAAGAGGCTGCTTGGGAAGAACTCATAGATTACTGCAAGCAGT 6406
QY 1065 TCCCTCTGGACCTGGGAAAGTTCTTCCCTGGCTTACAGAAAGTGAACAACTGCCAATG 1124
Db 6405 TCCCTCTGGACCTGGGAAAGTTCTTCCCTGGATTACGGAAGCAGAACTGCCAATG 6346
QY 1125 TCCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAAGTCCCAAGGAGTAAAGAGC 1184
Db 6345 TCCTACAGGACGCTTCCCGTAAGGAGAGTCCCTAGAAAGTCCCAAGGAGTCAAGAGC 6286
QY 1185 TGATGAACAATGGCAAGACCTCCCAAGGTGAATGAAGTCAACAGATGTTTATCACA 1244
Db 6285 TGATGAACAATGGCAAGATCTCCCAAGGAGAAATTGAAACTCACACAGATATCTATCACA 6226
QY 1245 ACCTGGATGAACACAGCCCAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCTCC 1304
Db 6225 ATCTGATGAATAATGGCCAAAATCCTGAGATCCCTGGAGGTTCCGATGAAGCAACCCC 6166
QY 1305 TGTACAAAGACGTTTGGATACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTC 1364
Db 6165 TGTACAAAGACGTTTGGATACATGAATTTCAAGTGGAGTGAACCTTCAGAAAAAGTCTC 6106

QY 1365 TCACATTAGTCCCATTTGGAGCCAGTTCTGACCAGTGGAGCGTCTGCACCTTTCTC 1424
Db 6105 TCACATTAGTCCCATTTGGAGCAAGTTCTGACCAGTGGAGCGTCTGCATCTTTCTC 6046
QY 1425 TGCAGCAACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACTA 1484
Db 6045 TTCAGCAACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACTA 5986
QY 1485 TTGGAGCGGACTTTCAGCAGCTCAGAAAGCAGAAAGCAGTGTACATAGGGCTTCAAGAGGG 1544
Db 5985 TCGTGGTGTATTTCAGCAGCTCAGAAAGCAGAAATGATATACATAGGGCTTCAAGAGGG 5926
QY 1545 AATTGAAAACTAAAGAACTGTGAATCATGAGTACTCTTGAAGTGTACGAATATTTCTGA 1604
Db 5925 AATTGAAAACTAAAGAACTGTGAATCATGAGTACTCTGAGACTGTGAGATATTTCTGA 5866
QY 1605 CAGAGCAGCTTTTGAAGGACTAGAGAAACTTACCAGGAGCCAGAGAGTGCCTCCTG 1664
Db 5865 CAGAGCAGCTTTTGAAGGACTAGAGAAACTTACCAGGAGCCAGAGAGTGCCTCCTG 5806
QY 1665 AGGAGAGAGCCCGAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATCTG 1724
Db 5805 AAGAAGAGCTCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATCTG 5746
QY 1725 AGTGGGAAAAATTTGAACTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTG 1784
Db 5745 AATGGGACAAATTTGAACTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACTCTTG 5686
QY 1785 AAAGACTCCAGGAATTTCAAGAGGCGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTG 1844
Db 5685 AAAGACTCCAGGAATTTCAAGAGGCGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTG 5626
QY 1845 AGTGATCAAGGATCTCTGGCAGCGCTGGGCGATCTCTCTATTGACTCTCTCCAAGATC 1904
Db 5625 AGTGATCAAGGATCTCTGGCAGCGCTGGGCGATCTCTCTATTGACTCTCTCCAAGATC 5566
QY 1905 ACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCTCTGAAAGAGAGAGTGAAGCC 1964
Db 5565 ACCTTGAAAAAGTCAAGGCACTTCGAGGAGAAATTCGCTCTGAAAGAGAGATGTCAATC 5506
QY 1965 ACGTCAATGACCTTGTCTGCCAGCTTACCACCTTGGGCTTCCAGCTCTCACCGTATAACC 2024
Db 5505 GTGTCAATGACCTTGCACATCAGTCAAGCAGCTGGGCTTCCAGCTCTCACCGTATAACC 5446
QY 2025 TCAGCACTCTGGAAGA 2040
Db 5445 TCAGCACTCTGGAAGA 5430
RESULT 4
US-09-427-048A-10/c
; Sequence 10, Application US/09427048A
; Patent No. 6203975
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; Wilson, James M.
; Fisher, Krishna J.
; Chen, Shu-Jen
; Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; Methods of Use Thereof
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/427,048A
FILING DATE: 21-Oct-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,022
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Bak, Mary E.
REGISTRATION NUMBER: 31,215
REFERENCE/DOCKET NUMBER: GNVN.008PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9200
TELEFAX: 215-540-5818
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 19307 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-427-048A-10

Query Match		41.5%;	Score 847.2;	DB 3;	Length 19307;
Best Local Similarity		88.6%;	Pred. No. 5e-246;		
Matches 918;		Conservative 0;	Mismatches 118;	Indels 0;	Gaps 0;
QY	1005	ATAATTAGTCCAAARAACTTGAAACAGAGTACAGCACAGACTCATAGATTACTGCAACAGT	1064		
Db	6465	ATAAAGAGTAAGTGCACAGAGCGTGTCTTGGAGAGAACTCATAGATTACTGCAAGCAGT	6406		
QY	1065	TCCCCCTGGACCTGGAAAGTTTCTTGCCCTGGCTACAGAAAGCTGAAACAACACTGCCAATG	1124		
Db	6405	TCCCTCTGGACCTGGAGAAAGTTTCTTCCCTGGATTACGGAAGCAGAAACAACACTGCCAATG	6346		
QY	1125	TCCTACAGGATGCTACCCGTAAGGAAGGCTCCTAGAAGACTCCAAGGGAGTAAAGAGC	1184		
Db	6345	TCCTACAGGACGCTTCCCGTAAGGAAGGCTCCTAGAAGACTCCAGGGGAGTCAGAGAGC	6286		
QY	1185	TGATGAACAATGGCAAGACCTCCAAGGTGAAATGAAGCTCACACAGATGTTATCACA	1244		
Db	6285	TGATGAACCATGGCAAGATCTCCAAGGAGAAATGAAGCTCACACAGATATCTATCACA	6226		
QY	1245	ACCTGGATGAAACAGCCAAAATCCTGAGATCCCTGGAAGTCCGATGATGTCAGTCC	1304		
Db	6225	ATCTTGATGAAATGGCCAAAATCCTGAGATCCCTGGAAGTCCGATGATGAGCACCCC	6166		
QY	1305	TGTTACAAAGACGTTTGGATAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAGTCTC	1364		
Db	6165	TGTTACAAAGACGTTTGGATAACATGAATTTCAAGTGGAGTGAACCTCAGAAAAGTCTC	6106		
QY	1365	TCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCAGTGGAGCGTCTGCACCTTTCTC	1424		
Db	6105	TCAACATTAGGTCCCATTTGGAAGCAAGTTCTGACCAGTGGAGCGTTTGCACTTTCTC	6046		
QY	1425	TGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTA	1484		
Db	6045	TTCAGGAACCTTCTGTTGGCTACAGCTGAAAGATGATGAACCTGAGCCGTCAGGCACCCA	5986		
QY	1485	TTGGAGGCGACTTTCAGCAGTTTCAGAACGAGAACCATGTACATAGGGCCCTTCAAGAGGG	1544		
Db	5985	TCGGTGGTGATTTCCAGCAGTTTCAGAACGAGAAATGATATACATAGGGCCCTTCAAGAGGG	5926		
QY	1545	AATTGAAACTAAAGAACTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGA	1604		
Db	5925	AATTGAAACTAAAGAACTGTAATCATGAGTACTCTTGAGACTGTGAGAATATTCTGA	5866		
QY	1605	CAGAGCAGCCTTTGGAAGGACTAGAGAAACTCTACCAGGAGCCCAAGAGAGCTGCCTCTG	1664		
Db	5865	CAGAGCAGCCTTTGGAAGGACTAGAGAAACTCTACCAGGAGCCCAAGAGAACTGCCTCTG	5806		

QY	1665	AGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTG	1722
Db	5805	AAGAAAGAGCTCAGAATGTCACTCGGCTCTACGAAAGCAGGCTGAAGAGGTCAACGCTG	5746
QY	1725	AGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTG	1784
Db	5745	AATGGGACAAATTGAACCTGCGCTCAGCTGATGGCAGAGAAAAATAGATGAAGCTCTTG	5686
QY	1785	AAAGACTCCAGGAACCTCAAGAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAGCTG	1844
Db	5685	AAAGACTCCAGGAACCTCAGGAAGCTGCCGATGAACCTCAAGTTGCGCCAAGCTG	5626
QY	1845	AGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATC	1904
Db	5625	AGGTGATCAAGGGATCCTGGCAGCCAGTGGGGGATCTCCTCATTTGACTCTCTGCAAGATC	5566
QY	1905	ACCTCGAGAAAGTCAAGGCACCTTCAGGAGAGAAATTCGGCCTCTGAAAGAGAAAGCTGAGCC	1964
Db	5565	ACCTTGAAAAAGTCAAGGCACCTTCGGGGAGAAATTCACCTCTTAAAGAGAATGTCAATC	5506
QY	1965	ACGTCAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACC	2024
Db	5505	GTGTCAATGACCTTGACATCAGCTGACCACACTGGGCATTCAGCTCTCACCTTATAACC	5446
QY	2025	TCAGCACTCTGGAAGA	2040
Db	5445	TCAGCACTTTGGAAGA	5430

RESULT 5

US-09-091-501B-7

; Sequence 7, Application US/09091501B

; Patent No. 6518413

; GENERAL INFORMATION:

; APPLICANT: Tinsley, Jonathon M

; APPLICANT: Davies, Kay E

; TITLE OF INVENTION: Utrophin gene expression

; FILE REFERENCE: 620-42

; CURRENT APPLICATION NUMBER: US/09/091,501B

; CURRENT FILING DATE: 1998-06-18

; PRIOR APPLICATION NUMBER: PCT/GB96/03156

; PRIOR FILING DATE: 1996-12-19

; PRIOR APPLICATION NUMBER: GB 9525962.8

; PRIOR FILING DATE: 1995-12-19

; PRIOR APPLICATION NUMBER: GB 9615797.9

; PRIOR FILING DATE: 1996-07-26

; PRIOR APPLICATION NUMBER: GB 9622174.2

; PRIOR FILING DATE: 1996-10-24

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 7

; LENGTH: 6045

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (11)..(6037)

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Chimeric

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (724)..(758)

; OTHER INFORMATION: Precise residue is left open

US-09-091-501B-7

QY	44	AGTTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAGAAGTA	103		
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QY 104 TTATCGTGGCTTCTTCTGCTGAGGACACATTCGAAGCAAGAGAGATTTCTAATGAT 163
Db 974 CTGACGTGGCTGTGTCGCGGAGGACACGCTCCAGGAGCAAGATGACATTTCTGATGAT 1033
QY 164 GTGGAAGTGTGAAAGACCAGTTTCATACATCATGAGGGGTACATGATGATTTGACAGCC 223
Db 1034 GTGGAAGAAGTCAAGAGCAGCTTGTCTACCCATGAACCTTTATGATGAGCTGACAGCA 1093
QY 224 CATCAGGGCCGGTGGTAAATTTCTACATTTGGGAAGTGAAGCTGATTTGGAACAGGAAA 283
Db 1094 CACCAGAGCAGCGTGGGAGGCTCCTGCAGGCTGGCAACAGCTGATGACACAAGGACT 1153
QY 284 TTATCAGAAGATCAAGAAACTGAAGTACAAGACAGACAGATGAATCTCTAATTTCAAGATGG 343
Db 1154 CTGTCAGAGGAGGAGGAGTGTGAGATCCAGAACAGATGACCTTGTGATGCAAGGTGG 1213
QY 344 GAATGCTCAGGTAGCTAGCATGGGAAACAAAGCAATTTACATAGATTTTAAATGGAT 403
Db 1214 GAGGCGCTCCGGTGGAGCATGGAGGCGAGTCCCGGCTGCACGACGCTCTGTATGGAG 1273
QY 404 CTCAGAAATCAGAAACTGAAGAGTTGAATGACTGGCTAACAACAAACAGAAAGAACACA 463
Db 1274 CTGCAAGAAGAACAGCTGCAGAGCTCTCRAGCTGGCTGGCCCTCACAGAAGAGCGGATT 1333
QY 464 AGGAAATGGAGGAAGAGCCCTTTGGACCTGATCTTGAACACCTTAAACGCCCAAGTACAA 523
Db 1334 CAGAAGATGGAGAGCCCTCCGCTGGGTGAAGACCTGCCCTGCCAGAGCTGCTTCAA 1393
QY 524 CAACATAAGGTCTTCAAGAGATCTAGAACAGAAACAAGTCAAGTCAATTTCTCTACT 583
Db 1394 GAACATAAAGTTTGCAAAATGACCTTGAAGCTGAACAGTGAAGTAAATTCCTTAAT 1453
QY 584 CACATGGTGGTGTAGTTGATGAATCTAGTGGAGATCACCGAAGCTGCTGCTTTGGAAGAA 643
Db 1454 CACATGGTGGTGTAGTTGATGAACACAGTGGGGAGAGTGCCACAGCTTCTTGGAGAT 1513
QY 644 CAACATAAGGTATGGGAGATCGATGGCAACATCTGTAGATGGACAGAACCGCTGG 703
Db 1514 CAGTTACAGAACTGGGTGAGCGCTGGACAGTGTATGCCGCTGACTGAAGAAGCTGG 1573
QY 704 GTTCTTTTACAGACATCCTTCTCAAATGGCAACGCTTACTGAAGAACAGTGCCTTTT 763
Db 1574 AACAGGTTGCAAGAAATCAGTATCTGTGGCGGAATTTATTTGGAAGAGAGTGTCTGTG 1633
QY 764 AGTCAATGGCTTTCAGAAAAAGAGATGCAGTGAACAAGATTCACACACTGGCTTTAAA 823
Db 1634 GAGCTTGGCTCACCAGAAAGAGAGGCTTTGAATAAGTTCAACACCAGCAACTTTAAA 1693
QY 824 GATCAAAATGAATGTTATCAAGTCTTCAAAAAGTGGCCGCTTTTAAACGGGATCTAGAA 883
Db 1694 GACCAGAGGAACATAAGTGTCTAGTGTCCGGGCTCTGGCTATATTGAAGGAAGACATG 1753
QY 884 AAGAAAGCAATCCATGGGCAAACTGTATTCTACTCAACAAAGATCTTTCTTCAACATG 943
Db 1754 ATGAAGAGGACAGACTCTGGATCAACTGATGAGATTTGCCAGGATGTGGCCCAATTA 1813
QY 944 AAGATAAGTCACTGACCCAGAGACGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGG 1003
Db 1814 AGTAATCCCAAGGCATCTAAGAAGATGAACAGTGAATCTCTGAGGAGCTAACAACAGAGATGG 1873
QY 1004 GATAATTTAGTCCAAAAACTTTGAAAAAGAGTACAGCACAG 1042
Db 1874 GATTCTCTGGTTTCAGAGACTCGAAGACTCTTCTTAACCAG 1912
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RESULT 6

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US-09-091-501B-9
; Sequence 9, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
```

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; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091.501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 10320
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(10312)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Full length
; OTHER INFORMATION: utrophin construct
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-9
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Query Match 16.8%; Score 343; DB 4; Length 10320;
Best Local Similarity 59.0%; Pred. No. 3.6e-93;
Matches 589; Conservative 0; Mismatches 410; Indels 0; Gaps 0;

QY 44 AGTTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAAGTA 103
Db 914 AGCACCGTCACTGAAGTGGACATGGATTGGACAGCTACCAGATAGCGCTAGAGGAAGTG 973
QY 104 TTATCGTGGCTTCTTCTGCTGAGGACACATTCGAAGCAAGAGAGAGATTTCTAATGAT 163
Db 974 CTGACGTGGCTGTGTCGCGGAGGACACGTTCCAGGAGCAAGATGACATTTCTGATGAT 1033
QY 164 GTGGAAGTGGTGAAGAACACAGTTTTCATCTACTCATGAGGCTACATGATGGATTTGACAGCC 223
Db 1034 GTGGAAGAAGTCAAGAGAGCAGTTTGTCTACCCATGAAACTTTATGATGGAGCTGACAGCA 1093
QY 224 CATCAGGGCCGGTGGTAAATATTCTACAATTTGGAAAGTGAAGCTGATTTGGAACAGAAA 283
Db 1094 CACCAGAGCAGCGTGGGAGCGCTCCTGCAGGCTGGCAACAGCTGATGACACAAGGACT 1153
QY 284 TTATCAGAAGATGAAGAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTTCAAGATGG 343
Db 1154 CTGTCAGAGGAGGAGGAGTTTGATGCCAGGAACAGATGACCTTGTGTAATGCAAGTGG 1213
QY 344 GAATGCCCTCAGGGTAGCTAGCATGGAAACAAAGCAATTTACATAGATTTTAAATGGAT 403
Db 1214 GAGGCGCTCCGGTGGAGAGCATGGAGGCGAGTCCCGGCTGCACGCGCTCTGTATGGAG 1273
QY 404 CTCCAGAAATCAGAAACTGAAGAGATTGAATGACTGGCTAACAACAAACAGAAAGAAACA 463
Db 1274 CTGCAGAAGAACAGCTGCAGCAGCTCTCAAGCTGGCTGGCCCTTCACAGAAGAGCGCAT 1333
QY 464 AGGAAATGGAGGAAGAGCGCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAA 523
Db 1334 CAGAAGATGGAGAGCCCTCCGCTGGGTGATGACCTGCCCTGCCAGAGCTGCTTCAA 1393
QY 524 CAACATAAGGTGCTTCAAGAAGATCTAGAACAAAGCAAGAGTCAAGTCAATTTCTCTACT 583
Db 1394 GAACATAAAGTTTGCAAAATGACCTTGAAGCTGAACAGGTTGAAGTAAATTCCTTAAT 1453
QY 584 CACATGGTGGTGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAA 643
Db 1454 CACATGGTGGTGTAGTTGATGAAGAACAGTGGGGAGAGTGCCACAGCTTCTTGGAGAT 1513
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QY 644 CAACCTTAAAGGTATTGGAGATCGATGGGCAACATCTGTAGTGSACAGAAAGCCGCTGG 703
Db 1514 CAGTTACAGAAACTGGGTAGCGCTGGACAGCTGTATGCCGTGGACTGAAGAACGTTGG 1573
QY 704 GTTCTTTTACAAAGACATCCTTCTCAAAATGGCAACGTCCTTACTGAAGAACAGTGCCTTTT 763
Db 1574 AACAGGTGCAAGAAATCAGTATTCTGTGGCAGGAATTATTGGAGAGCAGTGTCTGTG 1633
QY 764 AGTGCATGGCTTTCAGAAAAAGAGATGCAGTGAACAAGATTACACAACACTGGCTTTAAA 823
Db 1634 GAGGCTTGGCTCACCGGAAAGGAGAGGCTTTGAATAAAGTTCAAAACCAGCAACTTTAA 1693
QY 824 GATCAAAATGAATGTATCAAGTCTCAAAAACCTGCCGCTTTTAAAAAGGGATCTAGAA 883
Db 1694 GACCAGAGGAAGTAACTAGTGCAGTGTCCGGCGTCTGGCTATATTGAAGGAAGACATGGAA 1753
QY 884 AAGAAAAAGCAATCCATGGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTG 943
Db 1754 ATGAAGAGCCAGACTCTGGATCAACTGAGTGAAGATGGCCAGGATGTGGCCCAATTACTC 1813
QY 944 AAGAATAAGTCAGTGACCCAGAGACGGAAGCATGGCTGGATACTTTGCCCGGTGTGG 1003
Db 1814 AGTAATCCCAAGGCATCTAAGAAGATGAACAGTACTCTGAGGAGCTAACACAGAGATGG 1873
QY 1004 GATAATTAGTCCAAAAACTTGAAAGAGTACAGACAG 1042
Db 1874 GATTCTCTGGTTCAGAGACTCGAAGACTCTTCTTAACCAAG 1912

RESULT 7

US-09-091-501B-5
Query Match 3.9%; Score 79.4; DB 4; Length 200;
Best Local Similarity 64.3%; Pred. No. 2.8e-14;
Matches 119; Conservative 0; Mismatches 66; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Tinsley, Jonathon M
APPLICANT: Davies, Kay E
TITLE OF INVENTION: Utrrophin gene expression
FILE REFERENCE: 620-42
CURRENT APPLICATION NUMBER: US/09/091,501B
CURRENT FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: PCT/GB96/03156
PRIOR FILING DATE: 1996-12-19
PRIOR APPLICATION NUMBER: GB 9525962.8
PRIOR FILING DATE: 1995-12-19
PRIOR APPLICATION NUMBER: GB 9615797.9
PRIOR FILING DATE: 1996-07-26
PRIOR APPLICATION NUMBER: GB 9622174.2
PRIOR FILING DATE: 1996-10-24
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 200
TYPE: DNA
ORGANISM: Rattus sp.
US-09-091-501B-5

QY 505 CCTAAACGCCAAGTACAACAACATAGAGTGTCTTCAAGAAGATCTFAGAACAAGAACAAAGT 564
Db 16 CCTGCAAAACCTGCTTGAGAACAATAAAGTTTGCAAAAGTGACCTCGAAGCTGAGCAGGT 75
QY 565 CAGGGTCAATTCTCTCACTCACATGGGTGGTAGTGTATGTAGTGGAGATCAGCG 624
Db 76 GAAGGTGAATTCCTTAACATCATATGGGTGATTGTGGATGAACAGTGGGGAGAGCGC 135
QY 625 AACTGCTGCTTTGGAGAACAACTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAG 684
Db 136 CACAGCTGTTTGGAGAGATCAGTTACAGAAACTGGGTGAGCGCTGGACAGCTGTATGCCG 195
QY 685 ATGGA 689

Db 196 CTGGA 200
RESULT 8
US-09-091-501B-4
Query Match 3.9%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 4.9e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Tinsley, Jonathon M
APPLICANT: Davies, Kay E
TITLE OF INVENTION: Utrrophin gene expression
FILE REFERENCE: 620-42
CURRENT APPLICATION NUMBER: US/09/091,501B
CURRENT FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: PCT/GB96/03156
PRIOR FILING DATE: 1996-12-19
PRIOR APPLICATION NUMBER: GB 9525962.8
PRIOR FILING DATE: 1995-12-19
PRIOR APPLICATION NUMBER: GB 9615797.9
PRIOR FILING DATE: 1996-07-26
PRIOR APPLICATION NUMBER: GB 9622174.2
PRIOR FILING DATE: 1996-10-24
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 200
TYPE: DNA
ORGANISM: Mus sp.
US-09-091-501B-4

QY 493 TGATCTTGAAGACCTTAAACGCCCAAGTACAACAACATAGAGTGTCTTCAAGAAGATCTAGA 552
Db 4 TGACCTGCCCTCCCTGCAGAGCTGTCTTCAAGAACAATAAAGTTTGCAAAATGACCTTGA 63
QY 553 ACAAGAACAAAGTCAGGTCATTTCTCTCACTCACATGGTGTGGTAGTGTATGATGAATCTAG 612
Db 64 AGCTGRACAGGTGAAGTAAATTTCTTAACTCACATGGTGTGGTGAATAAACAG 123
QY 613 TGGAGATCACGCAACTGCTGTCTTGGGAAGAACAACTTAAGTATTTGGGAGATCGATGGC 672
Db 124 TGGGGAGAGTCCACAGCTCTTCTGGAAGATCAGTTACAGAAACTGGGTGAGCGCTGGAC 183
QY 673 AAACATCTGTAGATGGA 689
Db 184 AGCTGTATGCCGCTGGA 200

RESULT 9

US-09-091-501B-6
Query Match 3.9%; Score 79.4; DB 4; Length 200;
Best Local Similarity 64.3%; Pred. No. 2.8e-14;
Matches 119; Conservative 0; Mismatches 66; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Tinsley, Jonathon M
APPLICANT: Davies, Kay E
TITLE OF INVENTION: Utrrophin gene expression
FILE REFERENCE: 620-42
CURRENT APPLICATION NUMBER: US/09/091,501B
CURRENT FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: PCT/GB96/03156
PRIOR FILING DATE: 1996-12-19
PRIOR APPLICATION NUMBER: GB 9525962.8
PRIOR FILING DATE: 1995-12-19
PRIOR APPLICATION NUMBER: GB 9615797.9
PRIOR FILING DATE: 1996-07-26
PRIOR APPLICATION NUMBER: GB 9622174.2
PRIOR FILING DATE: 1996-10-24
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-091-501B-6

Query Match 3.9%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 4.9e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;
QY 493 TGATCTTGAAGACCTAAACGCGCAAGTACAAACATAGGTGCTTCAAGAAGATCTAGA 552
Db 4 TGATGTGAATCTCTACAAAAGCTGTAGAGAACATAAAAAGTTTGCAAGATGATCTGA 63
QY 553 ACAAGAACAAGTCAGGGTCAATCTCTCACTCACATGCTGGTGGTAGTGTGATGAATCTAG 612
Db 64 GGCTGAACAGGTGAAAGTAAATTCACCTAACTACATGCTGGTGTGATGATGAAGAACAG 123
QY 613 TGGAGATCAGCAACTGCTGCTTTGGGAAGAACAACTTAAGGTATTTGGGAGATCGATGGGC 672
Db 124 TGSTGAGAGCGCTACAGCTATCTCTAGAGAACAGCAGTTACAGAAACTTGGTGAGCGCTGGAC 183
QY 673 AAACATCTGTAGATGGA 689
Db 184 AGCAGTATGCCGTTGGA 200

RESULT 10
US-08-232-463-14/C
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:

; CLONE: przgpt-Fls
US-08-232-463-14

Query Match 3.8%; Score 76.6; DB 1; Length 7218;
Best Local Similarity 6.7%; Pred. No. 2.1e-12;
Matches 28; Conservative 236; Mismatches 155; Indels 0; Gaps 0;
QY 153 TTCTAATGATGTGGAAGTGGTGAAGACACAGTTTCTACTACTCATGAGGGGTACATGATGG 212
Db 1474 TATCTATGCAAGTAGTTAAAGAGATAGAAGAATTTGGTACRRRRRRRRRRRRRRRR 1415
QY 213 ATTTGACAGCCCATCAGGCCGGTGGTGTGTAATATTCTACAATTGGGAAGTAAGTGTATTG 272
Db 1414 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1355
QY 273 GAACAGGAAATATATCAGAAGATGAAGAAACTGAAGTACAAGAGAGATGAATTCCTAA 332
Db 1354 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1295
QY 333 ATTTCAAGATGGGAATGCCTCAGGGTAGCTAGCATGGAAGAGTGAATGACTGGCTAAACAAACAG 392
Db 1294 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1235
QY 393 TTTTAATGGATCTCCAGAACTCAGAACTGAGAGAGAGAGCTCTTGGACCTGATCTTGAAGACCTAAAC 452
Db 1234 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1175
QY 453 AAGAAAGAACAAAGGAAATGGAGAGAGAGCTCTTGGACCTGATCTTGAAGACCTAAAC 512
Db 1174 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1115
QY 513 GCCAAGTACAACAACATAAGGTGCTTCAAGAAGATCTAGAACAAACAAGTCAAGGCTC 571
Db 1114 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1056

RESULT 11
US-09-687-875A-13
; Sequence 13, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLICI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 238
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: pXX-C2 5' junction
US-09-687-875A-13

Query Match 3.1%; Score 63.6; DB 4; Length 238;
Best Local Similarity 94.3%; Pred. No. 2e-09;
Matches 66; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1288 TTCCGATGATGCAGTCTCTGTACAAAGACCGTTTGGATAACATGAAGTCAAGTGGAGTGA 1347
Db 169 TTCGGACGAGCAGTACTGTACAAAGACGTTTGGATAACATGAAGTCAAGTGGAGTGA 228
QY 1348 ACTTCGGAAA 1357
Db 229 ACTTCGGAAA 238

RESULT 12

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US-09-198-452A-1/c
; Sequence 1, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griflais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1
; LENGTH: 1230025
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(15000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (15001)..(30000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (90001)..(105000)
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; LOCATION: (300001)..(315000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (330001)..(345000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (345001)..(360000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (360001)..(375000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (390001)..(405000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (405001)..(420000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (420001)..(435000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (435001)..(450000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (450001)..(465000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (465001)..(480000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (480001)..(495000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (495001)..(510000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (510001)..(525000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (525001)..(540000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (540001)..(555000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (555001)..(570000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (570001)..(585000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (585001)..(600000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (600001)..(615000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (615001)..(630000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (630001)..(645000)
; OTHER INFORMATION: n=a or c or g or t
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RESULT 14

US-08-257-073-4
; Sequence 4, Application US/08257073
; Patent No. 5766597
; GENERAL INFORMATION:
; APPLICANT: Paoletti, Enzo
; APPLICANT: de Taisne, Charles
; APPLICANT: Tine, John A.
; TITLE OF INVENTION: MALARIA RECOMBINANT POXVIRUS VACCINE
; NUMBER OF SEQUENCES: 143
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis, Morris & Safford, P.C.
; STREET: 530 Fifth Avenue, 25th Floor
; CITY: New York
; STATE: New York
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

	Query Match	2.0%;	Score 40.4;	DB 1;	Length 2223;
	Best Local Similarity	51.7%;	Pred. NO. 0.094;		
	Matches 92;	Conservative 0;	Mismatches 86;	Indels 0;	Gaps 0;
QY	408	AGAATCAGAAACTGAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAAGACAACGA	467		
Db	2033	AAAAAGRAAAGAAAPAAAGRAAAGGAAAPAAACAGAAAPAAAGAAAPAAAGAAAPAAAGAAAG	2092		
QY	468	AAATGGAGGAAGGCCTCTTGGACCTGTATCTTGAAGACCTAAACGCCCAAGTACAACAC	527		
Db	2093	AAAAGARGAATAAGAAAAAGAAAPAAAGAAAAAGAAAGAAAAAGAAAGAAAAAGAAA	2152		
QY	528	ATAAGTGCTTCAGAAGATCTAGAACAAAGAACAAAGTCAGGGTCAATTCTCTCACTCA	585		
Db	2153	AAGAAGAAAGAACAAAGAAAGAAAGAAAGAAAGAAAGTAAGTACCAGAAAATTTGACAAC	2210		

RESULT 15

US-08-961-527-82
; Sequence 82, Application US/08961527
; Patent No. 6420135

; GENERAL INFORMATION:
 ; APPLICANT: Charles Kunsch
 ; TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
 ; NUMBER OF SEQUENCES: 391
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Human Genome Sciences, Inc.
 ; STREET: 9410 Key West Avenue
 ; CITY: Rockville
 ; STATE: Maryland
 ; COUNTRY: USA
 ; ZIP: 20850
 ;
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
 ; COMPUTER: HP Vectra 486/33
 ; OPERATING SYSTEM: MSDOS version 6.2
 ; SOFTWARE: ASCII Text
 ;
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/961,527
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Brookes, A. Anders
 ; REGISTRATION NUMBER: 36,373
 ; REFERENCE/DOCKET NUMBER: PB340P1
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (301) 309-8504
 ; TELEFAX: (301) 309-8512
 ; INFORMATION FOR SEQ ID NO: 82:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 16995 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ;
 ; US-08-961-527-82

	Query Match	1.9%;	Score 39.2;	DB 4;	Length 16995;
	Best Local Similarity	50.0%;	Pred. NO. 0.83;	Mismatches 0;	Gaps 0;
	Matches 98;	Conservative			
QY	357	TAGCTAGCATGGAAACAAAAGCAATTTACATAGAGATTTAATGGAATCCTCCAGAATCAGA	416		
Dd	4967	TAGGTGAATTCATTTAAAAAATGGTTTCCATAATTGATTTTGCGATGTCAATAATCAGA	5026		
QY	417	AAC TGAAGAGATTGAATGACTGGCTAACAAAAACAAGAACAGAACAGGAAAAATGGAGG	476		
Dd	5027	TAATTCATCTCTGAATGAAAAGGCCAAGTATGAAATTGAAATTGCACAGAAAGGCACGT	5086		
QY	477	AAGAGCCCTCTGGACCTGATCTTTGAAGACCTAAAACGCCAAGTACAAACATATAGGTGC	536		
Dd	5087	CTCGTATACAAAGTAAC TAATGTGGCTGGCATTAATAGCAAAGAACATCTCTGAGCAAGTCA	5146		
QY	537	TTCAAGAAGATCTAGA	552		
Dd	5147	TTGAAGCGGATTCAAAA	5162		

Search completed: September 24, 2003, 00:00:43
Job time : 123.113 secs

Db 1140 CCAGTTTCATCTACTGAGGGGTACATGATGGATTGTGACAGCCCATCAGGGCCGGGTGG 1199

QY 241 TAATATTCTACAATTTGGAAAGTAAGCTGATTGGAAACAGGAAAAATTATCAGAAGATGAAGA 300

Db 1200 TAATATTCTACAATTTGGAAAGTAAGCTGATTGGAAACAGGAAAAATTATCAGAAGATGAAGA 1259

QY 301 AACTGAAGTACAGAAGCAGATGAATCTCCTAAATTTCARAGATGGGAATGCCTCAGGSPAGC 360

Db 1260 AACTGAAGTACAGAAGCAGATGAATCTCCTAAATTTCARAGATGGGAATGCCTCAGGSPAGC 1319

QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGGATCTCCAGAATCAGAAACT 420

Db 1320 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGGATCTCCAGAATCAGAAACT 1379

QY 421 GAAAGAGTTGAATGACTGGCTTAACAAAAACAGAAGAAACAAGGAAAAATGGAGGAAGA 480

Db 1380 GAAAGAGTTGAATGACTGGCTTAACAAAAACAGAAGAAACAAGGAAAAATGGAGGAAGA 1439

QY 481 GCCTCTTGGACCTGATCTTGAAGACCTAAAACGCCAAAGTACAACAACATAAGTGCTTCA 540

Db 1440 GCCTCTTGGACCTGATCTTGAAGACCTAAAACGCCAAAGTACAACAACATAAGTGCTTCA 1499

QY 541 AGAAGATCTAGAACAAAGAACAAAGTCAGGTCATTTCTCTCACTCACATPGTGGTGAAGT 600

Db 1500 AGAAGATCTAGAACAAAGAACAAAGTCAGGTCATTTCTCTCACTCACATPGTGGTGAAGT 1559

QY 601 TGATGAATCTAGTGGAGATCAGCGCAACTGCTGCTTTGGAGAAACAACATAAGTATGGG 660

Db 1560 TGATGAATCTAGTGGAGATCAGCGCAACTGCTGCTTTGGAGAAACAACATAAGTATGGG 1619

QY 661 AGATCGATGGGCAAAACATCTCTAGATGGACAGAAGACCGCTGGTTCTTTTACAAAGACAT 720

Db 1620 AGATCGATGGGCAAAACATCTCTAGATGGACAGAAGACCGCTGGTTCTTTTACAAAGACAT 1679

QY 721 CCTCTCAAATGGCAACGCTCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTACA 780

Db 1680 CCTCTCAAATGGCAACGCTCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTACA 1739

QY 781 ARAAGAAGATGCAGTGAACAAGATTACACAACTGGCTTTAAAGATCAAAAATGAATGTT 840

Db 1740 ARAAGAAGATGCAGTGAACAAGATTACACAACTGGCTTTAAAGATCAAAAATGAATGTT 1799

QY 841 ATCAAGTCTTCAAAAACCTGGCGTTTAAAGCGGGATCTAGAAAAGAAAAAGCAATCCAT 900

Db 1800 ATCAAGTCTTCAAAAACCTGGCGTTTAAAGCGGGATCTAGAAAAGAAAAAGCAATCCAT 1859

QY 901 GGCAGAACTGTATTCACTCAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAAGTCAAC 960

Db 1860 GGCAGAACTGTATTCACTCAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAAGTCAAC 1919

QY 961 CCAGAAAGACGGAGCATGGCTGGATAAATTTGCCCGGTGTGGGATAATTTAGTCCAAAA 1020

Db 1920 CCAGAAAGACGGAGCATGGCTGGATAAATTTGCCCGGTGTGGGATAATTTAGTCCAAAA 1979

QY 1021 ACTGAAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCTCGGACCTGGA 1080

Db 1980 ACTTGAAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCTCGGACCTGGA 2039

QY 1081 AAAGTTTCTTGCCTGGCTTACAGAAGCTGAAACAACACTGCCAATGTCTTACAGGATGCTAC 1140

Db 2040 AAAGTTTCTTGCCTGGCTTACAGAAGCTGAAACAACACTGCCAATGTCTTACAGGATGCTAC 2099

QY 1141 CCGTAAGGAAAGGCTCCTAGAAAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCA 1200

Db 2100 CCGTAAGGAAAGGCTCCTAGAAAGACTCCAAGGAGTAAAGAGCTGATGAAACAATGGCA 2159

QY 1201 AGACCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATFACAACCTGGATGAAACAG 1260

Db 2160 AGACCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATFACAACCTGGATGAAACAG 2219

QY 1261 CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTT 1320

Db 2220 CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTT 2279

QY 1321 GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCA 1380

Db 2280 GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCA 2339

QY 1381 TTTGGAAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTCTCTGCAGGAACTTCTGGT 1440

Db 2340 TTTGGAAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTCTCTGCAGGAACTTCTGGT 2399

QY 1441 GTGGCTACAGCTGAAGATGATGAATTAAGCCGAGGACCACTTATTTGGAGGCGACTTTTC 1500

Db 2400 GTGGCTACAGCTGAAGATGATGAATTAAGCCGAGGACCACTTATTTGGAGGCGACTTTTC 2459

QY 1501 AGCAGTTTCAAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTAAGAACTAAAGA 1560

Db 2460 AGCAGTTTCAAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTAAGAACTAAAGA 2519

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Db 2580 AGGACTAGAGAAAACCTTACCAGGAGCCAGAGAGAGCTGCCTCTCTGAGGAGAGAGCCCCAGAA 2639

QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTTGAA 1740

Db 2640 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTTGAA 2699

QY 1741 CCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAAAGACTCCAGGAACT 1800

Db 2700 CCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAAAGACTCCAGGAACT 2759

QY 1801 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATC 1860

Db 2760 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATC 2819

QY 1861 CTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 1920

Db 2820 CTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 2879

QY 1921 GGCACCTTCAGAGGAGAAATTCGCCCTCTGAAAGAGAGACGTGAGCCACGTCAATGACCTTGC 1980

Db 2880 GGCACCTTCAGAGGAGAAATTCGCCCTCTGAAAGAGAGACGTGAGCCACGTCAATGACCTTGC 2939

QY 1981 TCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACCTCTGGAAGA 2040

Db 2940 TCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACCTCTGGAAGA 2999

QY 2041 C 2041

Db 3000 C 3000

RESULT 2

US-09-845-416-27

; Sequence 27, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF

; FILE REFERENCE: DEL142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 27

; LENGTH: 5149

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-27

Query Match		100.0%;	Score 2041;	DB 12;	Length 5149;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 2041;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	TCCTTCACAGCATTGGAAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGATGGAGAG	60		
Db	1717	TCCTTCACAGCATTGGAAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGATGGAGAG	1776		
QY	61	TGAAGTAACCTGGACCGTTATCAACAGCCTTTAGAGAAGTATTATCGTGGCTTC	120		
Db	1777	TGAAGTAACCTGGACCGTTATCAACAGCCTTTAGAGAAGTATTATCGTGGCTTC	1836		
QY	121	TGCTGAGGCACATTGCCAAGCACAAAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA	180		
Db	1837	TGCTGAGGCACATTGCCAAGCACAAAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA	1896		
QY	181	CCAGTTTCATACTCATGAGGGGTACATGATGGATTTCACAGCCCATCAGGGCCGGTTGG	240		
Db	1897	CCAGTTTCATACTCATGAGGGGTACATGATGGATTTCACAGCCCATCAGGGCCGGTTGG	1956		
QY	241	TAATATTCTACAATTGGGAAGTAAGCTGATTGGACAGGAAAAATTATCAGAAGATGAAGA	300		
Db	1957	TAATATTCTACAATTGGGAAGTAAGCTGATTGGACAGGAAAAATTATCAGAAGATGAAGA	2016		
QY	301	AAC TGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGATGGGAATGCCCTCAGGCTAGC	360		
Db	2017	AAC TGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGATGGGAATGCCCTCAGGCTAGC	2076		
QY	361	TAGCATGGAACAAACAAAGCAATTTACATPAGAGTTTAAATGGATCTCCAGAATCAGAAACT	420		
Db	2077	TAGCATGGAACAAACAAAGCAATTTACATPAGAGTTTAAATGGATCTCCAGAATCAGAAACT	2136		
QY	421	GAAGAGTTGAATGACTGGCTAAACAACAAACAGAGAAGAAACAAAGGAAATGGAGGAAGA	480		
Db	2137	GAAGAGTTGAATGACTGGCTAAACAACAAACAGAGAAGAAACAAAGGAAATGGAGGAAGA	2196		
QY	481	GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACACAACATAAGGTGCTTCA	540		
Db	2197	GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACACAACATAAGGTGCTTCA	2256		
QY	541	AGAAGATCTAGAACAAGAACAGTCAGGTCAATTCTCTCACTCACTACATGGTGGTAGT	600		
Db	2257	AGAAGATCTAGAACAAGAACAGTCAGGTCAATTCTCTCACTCACTACATGGTGGTAGT	2316		
QY	601	TGATGAATCTAGTGGAGATCACGGAAC TCTGCTTTTGAAGAACAACATTAAGGTATGGG	660		
Db	2317	TGATGRATCTAGTGGAGATCACGCAAC TCTGCTTTTGAAGAACAACATTAAGGTATGGG	2376		
QY	661	AGATCGATGGCAAAACATCTGTAGATGGACAGAAGACCGCTGGTTCTTTTACAAGACAT	720		
Db	2377	AGATCGATGGCAAAACATCTGTAGATGGACAGAAGACCGCTGGTTCTTTTACAAGACAT	2436		
QY	721	CCTTCTCAATGGCAACGCTCTTACTGAAGAACAGTGCCTTTT TAGTGCATGGCTTTCAGA	780		
Db	2437	CCTTCTCAATGGCAACGCTCTTACTGAAGAACAGTGCCTTTT TAGTGCATGGCTTTCAGA	2496		
QY	781	AAAAGAAGATGCAGTGAACAAGATTTCACAACACTGGCTTTAAAGATCAAAATGAATGTT	840		
Db	2497	AAAAGAAGATGCAGTGAACAAGATTTCACAACACTGGCTTTAAAGATCAAAATGAATGTT	2556		
QY	841	ATCAAGTCTTCAAAAAC TGGCCGTTTTTAAAGCGGATCTPAGAAAAGAAAAAGCAATCCAT	900		
Db	2557	ATCAAGTCTTCAAAAAC TGGCCGTTTTTAAAGCGGATCTPAGAAAAGAAAAAGCAATCCAT	2616		
QY	901	GGGCAAACTGTATTCACTCAAAACAAGATCTCTTTCAACACTGAAGATAAAGTCAGTGAC	960		
Db	2617	GGGCAAACTGTATTCACTCAAAACAAGATCTCTTTCAACACTGAAGATAAAGTCAGTGAC	2676		
QY	961	CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCCCGGTGGTGGGATAATTTAGTCCAAA	1020		
Db	2677	CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCCCGGTGGTGGGATAATTTAGTCCAAA	2736		

QY	1021	ACTTGAAGAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA	1080
Db	2737	ACTTGAAGAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA	2796
QY	1081	AAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACTGCCAAATGTCTCTACAGGATGCTAC	1140
Db	2797	AAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACTGCCAAATGTCTCTACAGGATGCTAC	2856
QY	1141	CCGTAAGSAAAGGCTCCTAGAAGACTCCAAGGGAGTAAAGAGAGTGAATAACAATGGCA	1200
Db	2857	CCGTAAGSAAAGGCTCCTAGAAGACTCCAAGGGAGTAAAGAGAGTGAATAACAATGGCA	2916
QY	1201	AGACCTCAAGGTGAATTTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAACACAG	1260
Db	2917	AGACCTCAAGGTGAATTTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAACACAG	2976
QY	1261	CCAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCTCTTACAAAGACGTTT	1320
Db	2977	CCAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCTCTTACAAAGACGTTT	3036
QY	1321	GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAATAAGTCTCTCAACATTTAGGTCCCA	1380
Db	3037	GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAATAAGTCTCTCAACATTTAGGTCCCA	3096
QY	1381	TTTGGAAACCCAGTTCTGACCAAGTGGAAAGCGCTCTGCACCTTTTCTCTGCAGGAACCTTCTGGT	1440
Db	3097	TTTGGAAACCCAGTTCTGACCAAGTGGAAAGCGCTCTGCACCTTTTCTCTGCAGGAACCTTCTGGT	3156
QY	1441	GTGGCTACAGCTGAAAGATGATGAATTAAGCCCGGAGGCACCTATTTGGAGGGCGACTTTCC	1500
Db	3157	GTGGCTACAGCTGAAAGATGATGAATTAAGCCCGGAGGCACCTATTTGGAGGGCGACTTTCC	3216
QY	1501	AGCAGTTCAGAAAGCAGAACGATGTACATAGGGCCCTCAAGAGSAGGAATTGAAAATAAGA	1560
Db	3217	AGCAGTTCAGAAAGCAGAACGATGTACATAGGGCCCTCAAGAGSAGGAATTGAAAATAAGA	3276
QY	1561	ACCTGTAATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGA	1620
Db	3277	ACCTGTAATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGA	3336
QY	1621	AGGACTAGAGAAACTCTACACAGGAGCCACAGAGAGCTGCCTCCTGAGSAGAGAGCCACAGAA	1680
Db	3337	AGGACTAGAGAAACTCTACACAGGAGCCACAGAGAGCTGCCTCCTGAGSAGAGAGCCACAGAA	3396
QY	1681	TGTCACCTCGCTTCTACGAAAAGCAGGCTGAGGAGGTCATTACTAGTGGGAAAATGAA	1740
Db	3397	TGTCACCTCGCTTCTACGAAAAGCAGGCTGAGGAGGTCATTACTAGTGGGAAAATGAA	3456
QY	1741	CCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAAC T	1800
Db	3457	CCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAAC T	3516
QY	1801	TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATC	1860
Db	3517	TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATC	3576
QY	1861	CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAA	1920
Db	3577	CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAA	3636
QY	1921	GGCAGTTCGAGGAGAAATTCGCGCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGC	1980
Db	3637	GGCAGTTCGAGGAGAAATTCGCGCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGC	3696
QY	1981	TCGCCAGCTTACCAGTTTGGGCATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGA	2040
Db	3697	TCGCCAGCTTACCAGTTTGGGCATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGA	3756
QY	2041	C 2041	
Db	3757	C 3757	


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RESULT 3
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match      74.5%; Score 1519.8; DB 12; Length 3999;
Best Local Similarity 87.5%; Pred. No. 0;
Matches 1786; Conservative 0; Mismatches 72; Indels 183; Gaps 4;

QY      1  TCCTTCACAGCATTTGGAGCTCCTGAAGACACAGTCAATTTGCGAGTTCATGATGGAGAG 60
Db      960 TCCTTCACAGCATTTGGAGCTCCTGAAGACACAGTCAATTTGCGAGTTCATGATGGAGAG 1019

QY      61  TGAAGTAAACCTGGACCGTTATCAACACAGCTTAGAAGAAGTATTATFCGTGGCTTCTTTC 120
Db     1020 TGAAGTAAACCTGGACCGTTATCAACACAGCTTAGAAGAAGTATTATFCGTGGCTTCTTTC 1079

QY     121  TGCTGAGGACACATTCGACGACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
Db     1080 TGCTGAGGACACATTCGACGACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1139

QY     181  CCAGTTTCATCTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGCCGGGTGG 240
Db     1140 CCAGTTTCATCTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGCCGGGTGG 1199

QY     241  TAATAFTCTACAANTGGGAAGTAAAGTGAATGGAAACAGGAAATATATCAGAAGATGAAGA 300
Db     1200 TAATAFTCTACAANTGGGAAGTAAAGTGAATGGAAACAGGAAATATATCAGAAGATGAAGA 1259

QY     301  AACTGAAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCATCAGGGTAGC 360
Db     1260 AACTGAAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCATCAGGGTAGC 1319

QY     361  TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGATCAGAAACT 420
Db     1320 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGATCAGAAACT 1379

QY     421  GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAAAGAAATGGAGGAAGA 480
Db     1380 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAAAGAAATGGAGGAAGA 1439

QY     481  GCCTCTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATAGGTGCTTCA 540
Db     1440 GCCTCTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATAGGTGCTTCA 1499

QY     541  AGAAGATCTAGAACAAAGAACAGGTCAGGTCAATTTCTCTACATCACATGGGTGGTAGT 600
Db     1500 AGAAGATCTAGAACAAAGAACAGGTCAGGTCAATTTCTCTACATCACATGGGTGGTAGT 1559

QY     601  TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 660
Db     1560 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 1619

QY     661  AGATCGATGGGCAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAAAGACAT 720
Db     1620 AGATCGATGGGCAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAAAGACCA 1679
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QY      721  CCTTCTCAAATGGCAACGCTTACTGAAGAACACAGTGCCTTTTCTAGTCATGGCTTTCAGA 780
Db     1680 GCGTGAC-----CTAGCTCCTGGACTGACCCTATTTGGAGCCTCTCCTACTCA 1727

QY      781  AAAAGAAGATGCAAGTGAACAAGATTACACAAACTGGCTTAAAGATCAAAAATGAAATGTT 840
Db     1728 GACTGTTACTCTGGTGACACA-----ACCTGTGTTACTAAGGAAACTGCCATCT- 1777

QY      841  ATCAAGTCTTCAAAAACCTGGCGGTTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db     1778 ----- 1777

QY      901  GGGCAAACTGTATTCACCTCAAAACAAGATCTTCTTCAACACTGAAGAATAAGTCAGTGAC 960
Db     1778 -----CCRAACTAGAAATGCCATCTTCTCTTGATGTTGGAG----- 1812

QY      961  CCAGAAGACGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTAGTCCAAAA 1020
Db     1813 ----- 1812

QY     1021  ACTTGAAAAGAGTACAGACACAGACTCATAGATTACTGCAACACAGTTCCTCCCTGGACCTGGA 1080
Db     1813 -----GTACCTACTCATAGATTACTGCAACACAGTTCCTCCCTGGACCTGGA 1856

QY     1081  AAGTTTCTTGCTGGCTTACAGAAGCTGAACAACTGCCAATGTCTACAGGATGCTAC 1140
Db     1857 AAGTTTCTTGCTGGCTTACAGAAGCTGAACAACTGCCAATGTCTACAGGATGCTAC 1916

QY     1141  CGTAAGGAAAAGCTCCTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAAACAATGGCA 1200
Db     1917 CCCTAAGGAAAAGCTCCTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAAACAATGGCA 1976

QY     1201  AGACCTCCAAGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAACAG 1260
Db     1977 AGACCTCCAAGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAACAG 2036

QY     1261  CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAAGACGTTT 1320
Db     2037 CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAAGACGTTT 2096

QY     1321  GGATAACATGAATTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCA 1380
Db     2097 GGATAACATGAATTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCA 2156

QY     1381  TTTGGAAGCCAGTTCTGACCAAGTGAAGCCTGCTGCACCTTCTCTGACGAACTTCTGGT 1440
Db     2157 TTTGGAAGCCAGTTCTGACCAAGTGAAGCCTGCTGCACCTTCTCTGACGAACTTCTGGT 2216

QY     1441  GTGCTACAGCTGAAAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTTC 1500
Db     2217 GTGCTACAGCTGAAAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTTC 2276

QY     1501  AGCAGTTCAGAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGA 1560
Db     2277 AGCAGTTCAGAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGA 2336

QY     1561  ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGA 1620
Db     2337 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGA 2396

QY     1621  AGGACTAGAGAAACTCTACCAGGAGCCCCAGAGAGCTGCCCTCTGAGGAGAGAGCCCAAGAA 1680
Db     2397 AGGACTAGAGAAACTCTACCAGGAGCCCCAGAGAGCTGCCCTCTGAGGAGAGAGCCCAAGAA 2456

QY     1681  TGTCACTCGGCTTCTACGAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAA 1740
Db     2457 TGTCACTCGGCTTCTACGAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAA 2516

QY     1741  CCTGCACTCCGCTGACTGGCAGAGAAAAAATAGATGAGACCTTTGAAAGACTCCAGGAAC 1800
Db     2517 CCTGCACTCCGCTGACTGGCAGAGAAAAAATAGATGAGACCTTTGAAAGACTCCAGGAAC 2576
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QY 1801 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATC 1860
Db 2577 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATC 2636
QY 1861 CTGGCAGCCCGTGGGGGATCTCCTGATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 1920
Db 2637 CTGGCAGCCCGTGGGGGATCTCCTGATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 2696
QY 1921 GGCACCTCGAGGAGAAATTCGCCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGC 1980
Db 2697 GGCACCTCGAGGAGAAATTCGCCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGC 2756
QY 1981 TCGCCAGCTTACCACCTTTGGGCATTTCAGCTCTCACCGTATACCTCAGCACTCTGGAAGA 2040
Db 2757 TCGCCAGCTTACCACCTTTGGGCATTTCAGCTCTCACCGTATACCTCAGCACTCTGGAAGA 2816
QY 2041 C 2041
Db 2817 C 2817
RESULT 4
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 74.5%; Score 1519.8; DB 12; Length 4966;
Best Local Similarity 87.5%; Pred. No. 0;
Matches 1786; Conservative 0; Mismatches 72; Indels 183; Gaps 4;
QY 1 TCCTTCACAGCATTTGGAAGTCCTGGAACACAAGTCATTTGGCAGTTCATTTGATGGAGAG 60
Db 1717 TCCTTCACAGCATTTGGAAGTCCTGGAACACAAGTCATTTGGCAGTTCATTTGATGGAGAG 1776
QY 61 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAAGTATTATCGTGGCTTCCTTC 120
Db 1777 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAAGTATTATCGTGGCTTCCTTC 1836
QY 121 TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCTTAATGATGTGGGAGTGGTGAAGA 180
Db 1837 TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCTTAATGATGTGGGAGTGGTGAAGA 1896
QY 181 CCAGTTTCATCTACTGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCCGGTTGG 240
Db 1897 CCAGTTTCATCTACTGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCCGGTTGG 1956
QY 241 TAATATTCTACAATTGGGAAGTAAAGCTGATGGAAACAGGAAATATCAGAAGATGAAGA 300
Db 1957 TAATATTCTACAATTGGGAAGTAAAGCTGATGGAAACAGGAAATATCAGAAGATGAAGA 2016
QY 301 AACTGAAGTACAAAGCAGATGAATCTCCATAAATCAAGATGGGAATGCTCAGGGTAGC 360
Db 2017 AACTGAAGTACAAAGCAGATGAATCTCCATAAATCAAGATGGGAATGCTCAGGGTAGC 2076
QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTAATGATCTCCAGAATCAGAAACT 420
Db 2077 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTAATGATCTCCAGAATCAGAAACT 2136

QY 421 GAAAGAGTTGAATGACTGGCTAAACAAAAACAGAAAGAAAGAAATCGAGGAAGA 480
Db 2137 GAAAGAGTTGAATGACTGGCTAAACAAAAACAGAAAGAAAGAAATCGAGGAAGA 2196
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTAAACGCAAGTACAAACAATAAGGTGCTTCA 540
Db 2197 GCCTCTTGGACCTGATCTTGAAGACCTAAACGCAAGTACAAACAATAAGGTGCTTCA 2256
QY 541 AGAAGATCTAGAACAAAGCAAGTCAGGGTCAATCTCTCAGTCACATGGTGGTAGT 600
Db 2257 AGAAGATCTAGAACAAAGCAAGTCAGGGTCAATCTCTCAGTCACATGGTGGTAGT 2316
QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGACAACTTAAGGTATTGGG 660
Db 2317 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGACAACTTAAGGTATTGGG 2376
QY 661 AGATCGATGGGCAACATCTGTAGATGGACAGAAAGCCGCTGGTCTTTTACAAGACAT 720
Db 2377 AGATCGATGGGCAACATCTGTAGATGGACAGAAAGCCGCTGGTCTTTTACAAGACCA 2436
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Db 2437 GCCTGAC-----CTAGCTCCTGGACTGACCACCTATTGGAGCCTCTCCTACTCA 2484
QY 781 AAAAGAAGATGCAGTGAACAAGATTACACAACTGCTTTAAAGATCAAAATGAATGTT 840
Db 2485 GACTGTTACTCTGTTGACACA-----ACCTGTTGTTACTAAGGAAACTGCCATCT- 2534
QY 841 ATCAAGTCTTCAAAAACACTGGCCGTTTAAAGCGGATCTAGAAAAGAAAGCAATCCAT 900
Db 2535 ----- 2534
QY 901 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAGTGAC 960
Db 2535 -----CCAAACTAGAAATGCCATCTTCTCTGATGTTGGAG----- 2569
QY 961 CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAA 1020
Db 2570 ----- 2569
QY 1021 ACTTGAAAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGA 1080
Db 2570 -----GTACCTACTCATAGATTACTGCAACAGTTCCCTGGACCTGGA 2613
QY 1081 AAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACCTGCCAATGTCTACAGGATGCTAC 1140
Db 2614 AAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACCTGCCAATGTCTACAGGATGCTAC 2673
QY 1141 CCGTAAGGAAAGGCTCCTTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCA 1200
Db 2674 CCGTAAGGAAAGGCTCCTTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCA 2733
QY 1201 AGACCTCCAAGGTGAATGAAGCTCACACAGATGTTTATCACAACTGGATGAAAAACAG 1260
Db 2734 AGACCTCCAAGGTGAATGAAGCTCACACAGATGTTTATCACAACTGGATGAAAAACAG 2793
QY 1261 CCAAAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTCTCTGTACAAAGACGTTT 1320
Db 2794 CCAAAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTCTCTGTACAAAGACGTTT 2853
QY 1321 GGATAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCTCA 1380
Db 2854 GGATAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCTCA 2913
QY 1381 TTTGGAAGCCAGTTCTGACCAGTGGAAAGCGCTGACACCTTCTCTGCAGGAACCTTCTGGT 1440
Db 2914 TTTGGAAGCCAGTTCTGACCAGTGGAAAGCGCTGACACCTTCTCTGCAGGAACCTTCTGGT 2973
QY 1441 GTGGCTACAGCTGAAAGATGATGAATTAAGCCCGGACCCACTATTGGAGGGCAGCTTCC 1500
Db 2974 GTGGCTACAGCTGAAAGATGATGAATTAAGCCCGGACCCACTATTGGAGGGCAGCTTCC 3033

QY 1501 AGCAGTTGAGAAAGCAGACGATGTACATAGGGCCCTCAAGAGGGAATTGAAACTAAAGA 1560
Db 3034 AGCAGTTGAGAAAGCAGACGATGTACATAGGGCCCTCAAGAGGGAATTGAAACTAAAGA 3093
QY 1561 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGCAGAGCAGCCTTTGGA 1620
Db 3094 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGCAGAGCAGCCTTTGGA 3153
QY 1621 AGGACTAGAGAAACTCTACAGAGAGGCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAA 1680
Db 3154 AGGACTAGAGAAACTCTACAGAGAGGCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAA 3213
QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAATTGAA 1740
Db 3214 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAATTGAA 3273
QY 1741 CCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACT 1800
Db 3274 CCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACT 3333
QY 1801 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCCAAAGCTGAGGTGATCAAGGGATC 1860
Db 3334 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCCAAAGCTGAGGTGATCAAGGGATC 3393
QY 1861 CTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCAAGATCACCTCGAGAAAGTCAA 1920
Db 3394 CTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCAAGATCACCTCGAGAAAGTCAA 3453
QY 1921 GGCACCTCGAGGAGAAATTGGCCCTCTGAAAGAGAACCTGAGCCACCTCAATGACCTTGC 1980
Db 3454 GGCACCTCGAGGAGAAATTGGCCCTCTGAAAGAGAACCTGAGCCACCTCAATGACCTTGC 3513
QY 1981 TCGCCAGCTTACCACCTTTGGCATTACAGCTCTCACCGTATAACCTCAGCACTCTGGGAAGA 2040
Db 3514 TCGCCAGCTTACCACCTTTGGCATTACAGCTCTCACCGTATAACCTCAGCACTCTGGGAAGA 3573
QY 2041 C 2041
Db 3574 C 3574

RESULT 5

US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 74.5%; Score 1519.8; DB 12; Length 4990;
Best Local Similarity 87.5%; Pred. No. 0;
Matches 1786; Conservative 0; Mismatches 72; Indels 183; Gaps 4;
QY 1 TCCTCAGACGATTTGGAAGCTCTGAAGACAAGTCAATTTGGCAGTTCAATGATGGAGAG 60
Db 1741 TCCTCAGACGATTTGGAAGCTCTGAAGACAAGTCAATTTGGCAGTTCAATGATGGAGAG 1800
QY 61 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC 120
Db 1801 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC 1860

QY 121 TGCTGAGGACACATTCGAAAGCACAAGGAGAGATTTCTAATGATGTGGAAAGTGGTGAAGA 180
Db 1861 TGCTGAGGACACATTCGAAAGCACAAGGAGAGATTTCTAATGATGTGGAAAGTGGTGAAGA 1920
QY 181 CCAGTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 240
Db 1921 CCAGTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 1980
QY 241 TAATATTCATAAATTGGGAAGTAAAGTGAATTCGAAACAGGAAATATCAGAAAGATGAAGA 300
Db 1981 TAATATTCATAAATTGGGAAGTAAAGTGAATTCGAAACAGGAAATATCAGAAAGATGAAGA 2040
QY 301 AACTGAAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 360
Db 2041 AACTGAAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 2100
QY 361 TAGCATGGAATAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAAC 420
Db 2101 TAGCATGGAATAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAAC 2160
QY 421 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAACAGGAAATGGAGGAAGA 480
Db 2161 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAACAGGAAATGGAGGAAGA 2220
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAACAACATAAGGTGCTTCA 540
Db 2221 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAACAACATAAGGTGCTTCA 2280
QY 541 AGAAGATCTAGAACAACAAGTCAAGGTCAATTTCTCTCATTACATGGTGGTGGTAGT 600
Db 2281 AGAAGATCTAGAACAACAAGTCAAGGTCAATTTCTCTCATTACATGGTGGTGGTAGT 2340
QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGTTGGGAAGAACAACTTAAGTATTGGG 660
Db 2341 TGATGAATCTAGTGGAGATCACGCAACTGCTGTTGGGAAGAACAACTTAAGTATTGGG 2400
QY 661 AGATCGATGGGCAACATCTGTAGATGGACAGAACAGCCGCTGTTTGTAGTGCATGGCTTCAGA 720
Db 2401 AGATCGATGGGCAACATCTGTAGATGGACAGAACAGCCGCTGTTTGTAGTGCATGGCTTCAGA 2460
QY 721 CCTTCTCAATGGCAACGCTTTACTGAAAGAACAGTGCCTTTTGTAGTGCATGGCTTCAGA 780
Db 2461 GCCTGAC-----CTAGCTCCTGGACTGACCACCTATTGGAGCCTCTCCTACTCA 2508
QY 781 AAAAGAAGATGCAGTGAACAAGATTCACACAACTGGCTTTAAAGATCAAAAATGAATGTT 840
Db 2509 GACTGTTTACTCTGGTGACACA-----ACCTGTGTTACTAAGAAACTGCCATCT- 2558
QY 841 ATCAAGTCTTCAAAAACCTGGCCGCTTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 900
Db 2559 ----- 2558
QY 901 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTCAACACTGAAGAATAAGTCACTGAC 960
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QY 961 CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAAA 1020
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Db 2594 -----GTACCTACTCATAGATTACTGCAACAGTTTCCCTGGACCTGGA 2637
QY 1081 AAAGTTTCTTGCTGGCTTACAGAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTAC 1140
Db 2638 AAAGTTTCTTGCTGGCTTACAGAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTAC 2697
QY 1141 CCCTAAGGAAAGGCTCCTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAATGGCA 1200
Db 2698 CCCTAAGGAAAGGCTCCTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAATGGCA 2757

QY 1201 AGACCTCAAGGTGAATTTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAG 1260
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Db 2758 AGACCTCAAGGTGAATTTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAG 2817
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QY 1261 CCAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCTGTTTACAAGACGTTT 1320
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QY 1321 GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAAGTCCCA 1380
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Db 2878 GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAAGTCCCA 2937
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QY 1381 TTTGGAAGCCAGTTCTGACACAGTGGGAAGCGTCTGACACCTTTTCTCTGCAGGAACCTTCTGGT 1440
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QY 1441 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCC 1500
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QY 1501 AGCAGTTCAAGAACAGACAGATGTACATAGGGCCCTCAAGAGGGAATTTGAAAATAAGA 1560
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Db 3058 AGCAGTTCAAGAACAGACAGATGTACATAGGGCCCTCAAGAGGGAATTTGAAAATAAGA 3117
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QY 1561 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGA 1620
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Db 3118 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGA 3177
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QY 1621 AGGACTAGAGAAACTCTACACAGGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAA 1680
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Db 3178 AGGACTAGAGAAACTCTACACAGGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAA 3237
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QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAA 1740
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Db 3238 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAA 3297
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QY 1741 CCTGCACCTCGCTGACTGCGCAGAGAAAAATAGATGACACCCCTTGAAGACTCCAGGAAC 1800
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Db 3298 CCTGCACCTCGCTGACTGCGCAGAGAAAAATAGATGACACCCCTTGAAGACTCCAGGAAC 3357
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QY 1801 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATC 1860
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Db 3358 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATC 3417
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QY 1861 CTGGCAGCCGCTGGGGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAA 1920
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Db 3418 CTGGCAGCCGCTGGGGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAA 3477
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QY 1921 GGCACCTTCGAGGAGAAATTCGCCCTCTGAAAGAGAACCTGAGCCAGCTCAATGACCTGC 1980
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Db 3478 GGCACCTTCGAGGAGAAATTCGCCCTCTGAAAGAGAACCTGAGCCAGCTCAATGACCTGC 3537
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QY 1981 TCGCCAGCTTACCACCTTTGGGCATTACGCTCTCACCCGATATAACCTCAGCACTCTGGAAGA 2040
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Db 3538 TCGCCAGCTTACCACCTTTGGGCATTACGCTCTCACCCGATATAACCTCAGCACTCTGGAAGA 3597
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QY 2041 C 2041
Db 3598 C 3598

RESULT 6
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 67.8%; Score 1383; DB 12; Length 3858;
Best Local Similarity 84.1%; Pred. No. 0;
Matches 1717; Conservative 0; Mismatches 0; Indels 324; Gaps 1;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAAAGACAAAGTCAATTTGGCAGTTCATTGATGGAGAG 60
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Db 960 TCCTTCACAGCATTTGGAAGCTCCTGAAAGACAAAGTCAATTTGGCAGTTCATTGATGGAGAG 1019
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QY 61 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAAGTATTATCGTGGCTTCTTTC 120
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QY 121 TGCTGAGGACACATTCGAAGCACAAAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA 180
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Db 1080 TGCTGAGGACACATTCGAAGCACAAAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA 1139
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QY 181 CCAGTTTCATCTACTGAGGGGTACATGATGGATTGACAGCCCATCAGGSCCGGTTGG 240
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Db 1140 CCAGTTTCATCTACTGAGGGGTACATGATGGATTGACAGCCCATCAGGSCCGGTTGG 1199
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QY 241 TAATATTCTACAATTGGGAAGTAAGCTGATTGGACAGGAAAAATTATCAGAAGATGAAGA 300
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Db 1200 TAATATTCTACAATTGGGAAGTAAGCTGATTGGACAGGAAAAATTATCAGAAGATGAAGA 1259
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QY 301 AACTGAAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 360
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QY 361 TAGCATGAAAAACAAAGCAATTTACATAGAGTTTAAATGATCTCCAGAATCAGAAACT 420
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Db 1320 TAGCATGAAAAACAAAGCAATTTACATAGAGTTTAAATGATCTCCAGAATCAGAAACT 1379
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QY 421 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAGAAACAAAGAAATGGAGGAAGA 480
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QY 481 GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCCAAGTACAAACACATAAGGTGCTTCA 540
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QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGTATTGGG 660
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QY 661 AGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAGACAT 720
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Db 1620 AGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAGAC-- 1677
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QY 721 CCTTCTCAAATGGCAACGCTCTTACTGAAGAACAGTGCCTTTTCTAGTGCATGGCTTTCAGA 780
Db 1678 ----- 1677
QY 781 AAAAGAGATGCAGTGAACAAGATTTCACACAACCTGSCCTTTAAAGATCAAAATGAATGTT 840
Db 1678 ----- 1677
QY 841 ATCAAGTCTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 900
Db 1678 ----- 1677

QY 901 GGGCAAACTGTATTCACTCAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAGTGAC 960
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QY 961 CCAGAAGACGGAACGATGGCTGGATAACTTTGCCCGGTGTGGGATAATTATTAGTCCAAAA 1020
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QY 1081 AAAGTTTCTTGCCCTGGCTTACAGAAGCTGAACAACCTGCCAATGTCTTACAGGATGCTAC 1140
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QY 1141 CCGTAAGGAAAGGCTCCTAGAACACTCCAAGGAGTAAACAGCTGATGAACAATGGCA 1200
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QY 1201 AGACCTCCAAGGTGAAATTTGAAGTCCACACAGATGTTTATCACAACCTGGATGAAAACAG 1260
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QY 1261 CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTTTACAAAAGACGTTT 1320
Db 1896 CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTTTACAAAAGACGTTT 1955
QY 1321 GGATAACATGAACITCAAGTGGAGTGAACITTCGGAATAAGTCTCTCAACATTAGTCCCA 1380
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QY 1381 TTTGGAAGCCAGTTCTGACCAAGTGGGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGT 1440
Db 2016 TTTGGAAGCCAGTTCTGACCAAGTGGGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGT 2075
QY 1441 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGCGGACTTTCC 1500
Db 2076 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGCGGACTTTCC 2135
QY 1501 AGCAGTTCAGAAGCAGAACGATGATACATAGGGGCTTCAAGAGGGAATTGAAAACTAAAGA 1560
Db 2136 AGCAGTTCAGAAGCAGAACGATGATACATAGGGGCTTCAAGAGGGAATTGAAAACTAAAGA 2195
QY 1561 ACCTGTAATCATGAGTACTCTTGAGACTGTACGATATTTCTGACAGAGCAGCCTTTGGA 1620
Db 2196 ACCTGTAATCATGAGTACTCTTGAGACTGTACGATATTTCTGACAGAGCAGCCTTTGGA 2255
QY 1621 AGGACTAGAGAAACTCTACCAGGAGCCCGCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAA 1680
Db 2256 AGGACTAGAGAAACTCTACCAGGAGCCCGCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAA 2315
QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAATTGAA 1740
Db 2316 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAATTGAA 2375
QY 1741 CCTGCACTCCGCTGACTGGCAGAGAAAAATAGATCAGACCCCTTGAAAGACTCCAGGAACT 1800
Db 2376 CCTGCACTCCGCTGACTGGCAGAGAAAAATAGATCAGACCCCTTGAAAGACTCCAGGAACT 2435
QY 1801 TCAAGAGCCACGGATGAGCTGGACCTCAAGCTGGGCCAAGCTGAGGTGATCAAGGGATC 1860
Db 2436 TCAAGAGCCACGGATGAGCTGGACCTCAAGCTGGGCCAAGCTGAGGTGATCAAGGGATC 2495
QY 1861 CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAAGTCAA 1920
Db 2496 CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAAGTCAA 2555
QY 1921 GGCATTTCAGGAGAAATTTGGCCCTCTGAAAGAGAACGTTGAGCCACGTCATGACCTTGC 1980
Db 2556 GGCATTTCAGGAGAAATTTGGCCCTCTGAAAGAGAACGTTGAGCCACGTCATGACCTTGC 2615
QY 1981 TCGCCAGCTTACCACITTTGGGCAATTCAGCTCTCACCGTATACCTCAGCACTCTGGAAGA 2040

Db 2616 TCGCCAGCTTACCACITTTGGGCATTTCAGCTCTCACCGTATAACTCAGCACTCTGGAAGA 2675
QY 2041 C 2041
Db 2676 C 2676
RESULT 7
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29
Query Match 67.8%; Score 1383; DB 12; Length 4825;
Best Local Similarity 84.1%; Pred. No. 0;
Matches 1717; Conservative 0; Mismatches 0; Indels 324; Gaps 1;
QY 1 TCCTTCACAGCATTTGGAAAGCTCCTGAAGACAAGTCATTTGGCAGTTCATTGATGAGAGAG 60
Db 1717 TCCTTCACAGCATTTGGAAAGCTCCTGAAGACAAGTCATTTGGCAGTTCATTGATGAGAGAG 1776
QY 61 TCAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATTTATCGTGGCTTCTTTC 120
Db 1777 TCAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATTTATCGTGGCTTCTTTC 1836
QY 121 TCCTGAGGACACATTCGACGACACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
Db 1837 TCCTGAGGACACATTCGACGACACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1896
QY 181 CCAGTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGGTGG 240
Db 1897 CCAGTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGGTGG 1956
QY 241 TAATATTCTACAATTGGGAAGTAAAGCTGATTTGAACAGGAAAAATTTACAGAAGATGAAGA 300
Db 1957 TAATATTCTACAATTGGGAAGTAAAGCTGATTTGAACAGGAAAAATTTACAGAAGATGAAGA 2016
QY 301 AACTGAAGTACAAGAGCAGATGAATCTCTAAATTCAGATGGGAATGGCATGCCCTCAGGSPAGC 360
Db 2017 AACTGAAGTACAAGAGCAGATGAATCTCTAAATTCAGATGGGAATGCCCTCAGGSPAGC 2076
QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT 420
Db 2077 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT 2136
QY 421 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAGAAACAAGGAAAAATGGAGGAAGA 480
Db 2137 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAGAAACAAGGAAAAATGGAGGAAGA 2196
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACACACATAAAGGTGCTTCA 540
Db 2197 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACACATAAAGGTGCTTCA 2256
QY 541 AGAAGATCTAGAACAAGAAAGTCAAGGTCAATTTCTCTCACTCACATGGTGGTGTAGT 600
Db 2257 AGAAGATCTAGAACAAGAAAGTCAAGGTCAATTTCTCTCACTCACATGGTGGTGTAGT 2316

QY 601 TGATGAATCTAGTGGAGATCAGCGAACTGCTGCTTTGGAGAACAACTAAGGTATTGGG 660
Db 2317 TGATGAATCTAGTGGAGATCAGCGAACTGCTGCTTTGGAGAACAACTAAGGTATTGGG 2376
QY 661 AGATCGATGGGAAACATCTGAGATGGACAGAAGACCGTGGTCTTTTACAAGACAT 720
Db 2377 AGATCGATGGGCAACATCTGAGATGGACAGAAGACCGTGGTCTTTTACAAGAC-- 2434
QY 721 CCTTCTCAAATGCGAACGCTCTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTCAGA 780
Db 2435 ----- 2434
QY 781 AARAGAAGATGCAGTGAACAAGATTACACAACTGGCTTTAAAGATCAAAATGAAATGTT 840
Db 2435 ----- 2434
QY 841 ATCAAGTCTTCAAAAACCTGGCCGTTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db 2435 ----- 2434
QY 901 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAGTGAC 960
Db 2435 ----- 2434
QY 961 CCAGAAGACGGAAAGCATGGCTGGATAAATTTGCCCGGTGTTGGGATAATTTAGTCCAAAA 1020
Db 2435 ----- 2434
QY 1021 ACTTGAAGAAGATACAGCACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTTGA 1080
Db 2435 -----ACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA 2472
QY 1081 AAAGTTTCTTGCCCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTAC 1140
Db 2473 AAAGTTTCTTGCCCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTAC 2532
QY 1141 CCGTAAGGAAAGGCTCCTAGAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCA 1200
Db 2533 CCGTAAGGAAAGGCTCCTAGAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCA 2592
QY 1201 AGACCTCCAAGGTGAAATGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAG 1260
Db 2593 AGACCTCCAAGGTGAAATGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAG 2652
QY 1261 CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCTGTTACAAAGACGTTT 1320
Db 2653 CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCTGTTACAAAGACGTTT 2712
QY 1321 GGATAACATGAACCTCAAGTGGAGTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCA 1380
Db 2713 GGATAACATGAACCTCAAGTGGAGTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCA 2772
QY 1381 TTTGGAGCCAGTTCTGACCAGTGGAGGCGTCTGCACCTTTTCTCTGCAGGAACCTTCTGGT 1440
Db 2773 TTTGGAGCCAGTTCTGACCAGTGGAGGCGTCTGCACCTTTTCTCTGCAGGAACCTTCTGGT 2832
QY 1441 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCCACTTTCC 1500
Db 2833 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCCACTTTCC 2892
QY 1501 AGCAGTTCAGAAAGCAGACGATGTACATAGGGCCCTCAAGAGGGAATGAAAATAAGA 1560
Db 2893 AGCAGTTCAGAAAGCAGACGATGTACATAGGGCCCTCAAGAGGGAATGAAAATAAGA 2952
QY 1561 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGA 1620
Db 2953 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGA 3012
QY 1621 AGGACTAGAGAAACTCTACCAGGAGCCACAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAA 1680
Db 3013 AGGACTAGAGAAACTCTACCAGGAGCCACAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAA 3072
QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAA 1740

Db 3073 TGTCACTCGGCTTCTACGAAAGCAGGCTCAGGAGGTCAATACTAGTGGGAAAAAATTGAA 3132
QY 1741 CCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAACTCCAGAACT 1800
Db 3133 CCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAACTCCAGAACT 3192
QY 1801 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATC 1860
Db 3193 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATC 3252
QY 1861 CTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAAGTCAA 1920
Db 3253 CTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAAGTCAA 3312
QY 1921 GGCACCTTCGAGGAGAAAAATTGCGCCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGC 1980
Db 3313 GGCACCTTCGAGGAGAAAAATTGCGCCTCTGAAAAGAGAACGTGAGCCACGTCAATGACCTTGC 3372
QY 1981 TCGCCAGCTTACCACATTTGGSCATTCAGCTCTCACCGTATAAACCTCAGCACTCTGGAAGA 2040
Db 3373 TCGCCAGCTTACCACATTTGGSCATTCAGCTCTCACCGTATAAACCTCAGCACTCTGGAAGA 3432
QY 2041 C 2041
Db 3433 C 3433

RESULT 8
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 67.8%; Score 1383; DB 12; Length 4848;
Best Local Similarity 84.1%; Pred. No. 0;
Matches 1717; Conservative 0; Mismatches 0; Indels 324; Gaps 1;
QY 1 TCCTTCACAGCATTTGGAAAGCTCCTGAAACAGCAAGTCAATTTGSCAGTTTCATGATGGAGAG 60
Db 1740 TCCTTCACAGCATTTGGAAAGCTCCTGAAAGACAAAGTCAATTTGSCAGTTTCATGATGGAGAG 1799
QY 61 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATATTATCGTGGCTTCTTTC 120
Db 1800 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATATTATCGTGGCTTCTTTC 1859
QY 121 TGCTGAGGACACATTCGAAGCACAAGGAGAGATTCTAATGATGTGAAGTGGTGAAGA 180
Db 1860 TGCTGAGGACACATTCGAAGCACAAGGAGAGATTCTAATGATGTGAAGTGGTGAAGA 1919
QY 181 CCAGTTTCATCTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGCGGTTGG 240
Db 1920 CCAGTTTCATCTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGCGGTTGG 1979
QY 241 TAATATTCTACAATTGGGAAGTAACTGATTGGAACAGGAAATATTATCAGAGATGAAGA 300
Db 1980 TAATATTCTACAATTGGGAAGTAACTGATTGGAACAGGAAATATTATCAGAGATGAAGA 2039

301	QY	AACTGAAGTACAAAGAGCAGATGAATCTCCTAAATTCAGATGGAAATGCCTCAGGTAGC	360
2040	Db	AACTGAAGTACAAAGAGCAGATGAATCTCCTAAATTCAGATGGAAATGCCTCAGGTAGC	2099
361	QY	TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAAATCAGAAACT	420
2100	Db	TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAAATCAGAAACT	2159
421	QY	GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAGAACAAAGGAAATGGAGGAAGA	480
2160	Db	GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAGAACAAAGGAAATGGAGGAAGA	2219
481	QY	GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAACAATAGGTGTTCA	540
2220	Db	GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAACAATAGGTGTTCA	2279
541	QY	AGAAGATCTAGAAACAAGAACAAAGTCAGGTCATTTCTCTCACTCACATGGTGGT	600
2280	Db	AGAAGATCTAGAAACAAGAACAAAGTCAGGTCATTTCTCTCACTCACATGGTGGT	2339
601	QY	TGATGAATCTAGTGGAGATCACGCCAACTGCTTTGGAAGAACAACTTAAGTATTGGG	660
2340	Db	TGATGAATCTAGTGGAGATCACGCCAACTGCTTTGGAAGAACAACTTAAGTATTGGG	2399
661	QY	AGATCGATGGCAACATCTGTAGATGGACAGAACCGCTGGTCTTTTACAAGACAT	720
2400	Db	AGATCGATGGCAACATCTGTAGATGGACAGAACCGCTGGTCTTTTACAAGAC--	2457
721	QY	CCTTCTCAATGGCAACCTCTTACTGAAGAACAGTGCCTTTTAGTGGATGGCTTCAGA	780
2458	Db	-----	2457
781	QY	AAAAGAGATGCAGTGAACAAGATTTCACACAACCTGGCTTTAAAGATCAAAAATGAAATGTT	840
2458	Db	-----	2457
841	QY	ATCAAGTCTTCAAAAACCTGGCCGTTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT	900
2458	Db	-----	2457
901	QY	GGGCAACCTGATTACCTCAAAACAAGATCTTTTCAACACTGAAGAATAAGTCAGTGAC	960
2458	Db	-----	2457
961	QY	CCAGAAGACGGAAGCATGGCTGGATAAATTTGCCCGGTCTGGGATAATTTAGTCCAAA	1020
2458	Db	-----	2457
1021	QY	ACTTGAAAAGAGTACAGCACAGACTCATATGATTACTGCAACAGTTCCCTCCCTGGACCTGGA	1080
2458	Db	-----	2457
1081	QY	AAAGTTTCTTGCTGCCTGGCTTACAGAAGCTGAAACAACACTGCCAATGTCTACAGGATGCTAC	1140
2496	Db	AAAGTTTCTTGCTGCCTGGCTTACAGAAGCTGAAACAACACTGCCAATGTCTACAGGATGCTAC	2555
1141	QY	CCGTAAGGAAAGGCTCCTTGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCA	1200
2556	Db	CCGTAAGGAAAGGCTCCTTGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCA	2615
1201	QY	AGACCTCCAAGGTGAAATGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAACAG	1260
2616	Db	AGACCTCCAAGGTGAAATGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAACAG	2675
1261	QY	CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCCTGTTACAAGACGTTT	1320
2676	Db	CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCCTGTTACAAGACGTTT	2735
1321	QY	GGATAACATGAACCTTCAAGTGGAGTGAACTTCGGAAAAAGTCTCTCAACATTAGTCCCA	1380
2736	Db	GGATAACATGAACCTTCAAGTGGAGTGAACTTCGGAAAAAGTCTCTCAACATTAGTCCCA	2795
1381	QY	TTTGGAGCCAGTTCTGACCAGTGGAGCGCTGCACCTTTCTCTGCAGGAACCTTCTGGT	1440

Db	2796	TTTTGGAAGCCAGTTCTGACCAGTGGAGCGTCTGCACCTTTCTCTGCAGGAACTTCTGGT	2855
QY	1441	GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACACCTATTGGAGGCGACTTTCC	1500
Db	2856	GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACACCTATTGGAGGCGACTTTCC	2915
QY	1501	AGCAGTTCAGAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAAATTCAAAACTTAAGA	1560
Db	2916	AGCAGTTCAGAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAAATTCAAAACTTAAGA	2975
QY	1561	ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGA	1620
Db	2976	ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGA	3035
QY	1621	AGGACTAGAGAAACTCTACCAGGAGCCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCCGAGAA	1680
Db	3036	AGGACTAGAGAAACTCTACCAGGAGCCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCCGAGAA	3095
QY	1681	TGTCACCTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAA	1740
Db	3096	TGTCACCTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAA	3155
QY	1741	CCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAAC	1800
Db	3156	CCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAAC	3215
QY	1801	TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATC	1860
Db	3216	TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATC	3275
QY	1861	CTGGCAGCCCGTGGCGGATCTCCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAAGTCAA	1920
Db	3276	CTGGCAGCCCGTGGCGGATCTCCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAAGTCAA	3335
QY	1921	GGCACTTCGAGGAGAAAATTGGCCCTCTGAAAGAGAAACGTGAGCCACGTCATGACCTTGC	1980
Db	3336	GGCACTTCGAGGAGAAAATTGGCCCTCTGAAAGAGAAACGTGAGCCACGTCATGACCTTGC	3395
QY	1981	TCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGGTATAACCTCAGCACTCTGGAAGA	2040
Db	3396	TCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGGTATAACCTCAGCACTCTGGAAGA	3455
QY	2041	C 2041	
Db	3456	C 3456	

RESULT 9
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845.416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match	67.8%;	Score 1383;	DB 12;	Length 5060;
Best Local Similarity	84.1%;	Pred. NO. 0;		
Matches 1717;	Conservative	0;	Mismatches 0;	Indels 324;
				Gaps 1;

QY 1 TCCTTCACAGCAATTTGGAAGCTCCTGAAGACRAGTCAATTTGGCAGTTCATTGATGGAGAG 60
Db 1952 TCCTTCACAGCAATTTGGAAGCTCCTGAAGACRAGTCAATTTGGCAGTTCATTGATGGAGAG 2011
QY 61 TGAAGTAAACCTGACCCGTTATCAAAACAGCTTTAGAAGAACTATTATCGTGGCTTCCTTC 120
Db 2012 TGAAGTAAACCTGACCCGTTATCAAAACAGCTTTAGAAGAACTATTATCGTGGCTTCCTTC 2071
QY 121 TGCTGAGGACACATTTGCAAGCAACAAGGAGAGATTTCTAATGATGTGGAAGTGTGAAAGA 180
Db 2072 TGCTGAGGACACATTTGCAAGCAACAAGGAGAGATTTCTAATGATGTGGAAGTGTGAAAGA 2131
QY 181 CCAGTTTCATACCTGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGCGGTTGG 240
Db 2132 CCAGTTTCATACCTGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGCGGTTGG 2191
QY 241 TAATATTTCTACAATTTGGGAAGTAACTGATTGGAACAGGAAATTTATCAGAAAGATGAAGA 300
Db 2192 TAATATTTCTACAATTTGGGAAGTAACTGATTGGAACAGGAAATTTATCAGAAAGATGAAGA 2251
QY 301 AACTGAAGTACAAGACGAGATGAATCTCCTAAATTTCAAGATGGGAATGCCCTCAGGGTAGC 360
Db 2252 AACTGAAGTACAAGACGAGATGAATCTCCTAAATTTCAAGATGGGAATGCCCTCAGGGTAGC 2311
QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTAATGGATCTCCAGAAATCAGAAACT 420
Db 2312 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTAATGGATCTCCAGAAATCAGAAACT 2371
QY 421 GAAAGAGTTGAATGACTGGCTTAACAAAAACAGAAAGAAAGAAATGGAGGAAGA 480
Db 2372 GAAAGAGTTGAATGACTGGCTTAACAAAAACAGAAAGAAAGAAATGGAGGAAGA 2431
QY 481 GCCTCTGGACCTGATCTTTGAAGACTTAAACGCCAAGTACAAACATAAAGTGTCTCA 540
Db 2432 GCCTCTGGACCTGATCTTTGAAGACTTAAACGCCAAGTACAAACATAAAGTGTCTCA 2491
QY 541 AGAAGTCTAGAACAAGAACAAAGTCAGGGTCAATCTCTCCTCCTCCTCCTCCTCCTCCTCCT 600
Db 2492 AGAAGTCTAGAACAAGAACAAAGTCAGGGTCAATCTCTCCTCCTCCTCCTCCTCCTCCTCCT 2551
QY 601 TGATGAATCTAGTGGAGATCACGGAACCTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 660
Db 2552 TGATGAATCTAGTGGAGATCACGGAACCTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 2611
QY 661 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGTCTCTTTTACAAGACAT 720
Db 2612 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGTCTCTTTTACAAGAC -- 2669
QY 721 CCTTCTCAAATGGCRACGCTTTACTGAAGAACAGTGCCTTTTATAGTCATGGCTTTTACA 780
Db 2670 ----- 2669
QY 781 AAAAGAGATGCAGTGAACAAGATTCACAACTGGCTTTAAGATCAAAATGAATGTT 840
Db 2670 ----- 2669
QY 841 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db 2670 ----- 2669
QY 901 GGGCAAAGTATTACTCAAAACAAGATCTCTTTCAACACTGAAGAATAAGTCAGTGAC 960
Db 2670 ----- 2669
QY 961 CCAGAAGACGGGAGCATGGCTGGATAAATTTGCCCGGTGTTGGGATAATTTAGTCCAAA 1020
Db 2670 ----- 2669
QY 1021 ACTTGRAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA 1080
Db 2670 ----- ACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA 2707
QY 1081 AAAGTTTCTTGCCTTACAGAGCTGAAACAACTGCCAAATGTCCTACAGGATGCTAC 1140

Db 2708 AAAGTTTCTTGGCTGGCTTACAGAAAGCTGAACAACTGCCAATGTCTTACAGGATGCTAC 2767
QY 1141 CCGTAAGGAAAGGCTCCTTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAATGGCA 1200
Db 2768 CCGTAAGGAAAGGCTCCTTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAATGGCA 2827
QY 1201 AGACCTCCAAGGTGAATTTGAGACTCACACAGATGTTTATCACAACTCGATGAAACAG 1260
Db 2828 AGACCTCCAAGGTGAATTTGAGACTCACACAGATGTTTATCACAACTCGATGAAACAG 2887
QY 1261 CCAAAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTCTCTTACAAAGACGTTT 1320
Db 2888 CCAAAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTCTCTTACAAAGACGTTT 2947
QY 1321 GGATAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCA 1380
Db 2948 GGATAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCA 3007
QY 1381 TTTGGAAGCCAGTCTTGACCAAGTGAAGCGTCTGCACCTTCTCTGCAGAACTTCTGTT 1440
Db 3008 TTTGGAAGCCAGTCTTGACCAAGTGAAGCGTCTGCACCTTCTCTGCAGAACTTCTGTT 3067
QY 1441 GTGCTACAGCTGAAAAGATGATGAATTAAGCGGCGAGGCACTATTGGAGCGGACTTCC 1500
Db 3068 GTGCTACAGCTGAAAAGATGATGAATTAAGCGGCGAGGCACTATTGGAGCGGACTTCC 3127
QY 1501 AGCAGTTCAGAACGAGAACGATGTACATAGGSCCTTCAAGAGGGAATTTGAAAACTAAAGA 1560
Db 3128 AGCAGTTCAGAACGAGAACGATGTACATAGGSCCTTCAAGAGGGAATTTGAAAACTAAAGA 3187
QY 1561 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGA 1620
Db 3188 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGA 3247
QY 1621 AGGACTAGAGAACTCTACCAGAGCCCAGAGAGCTGCCCTCTGAGGAGAGAGCCAGAA 1680
Db 3248 AGGACTAGAGAACTCTACCAGAGCCCAGAGAGCTGCCCTCTGAGGAGAGAGCCAGAA 3307
QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTTCAATACTAGTGGGAAAAAATTGAA 1740
Db 3308 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTTCAATACTAGTGGGAAAAAATTGAA 3367
QY 1741 CCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACT 1800
Db 3368 CCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACT 3427
QY 1801 TCAAGAGGCCACCGATGAGCTGGACCTCAAGCTCGGCCAAAGCTGAGGTGATCAAGGATC 1860
Db 3428 TCAAGAGGCCACCGATGAGCTGGACCTCAAGCTCGGCCAAAGCTGAGGTGATCAAGGATC 3487
QY 1861 CTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAGTCAA 1920
Db 3488 CTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAGTCAA 3547
QY 1921 GGCACCTCGAGGAGAAATTTGGCTCTGAAAGAGAAACGTCAGCCACGTCATGACCTTGC 1980
Db 3548 GGCACCTCGAGGAGAAATTTGGCTCTGAAAGAGAAACGTCAGCCACGTCATGACCTTGC 3607
QY 1981 TCGCCAGCTTACCAGTTTGGGCAATTCAGCTCTCACCCGTATACCTCAGCACTCTGGAAGA 2040
Db 3608 TCGCCAGCTTACCAGTTTGGGCAATTCAGCTCTCACCCGTATACCTCAGCACTCTGGAAGA 3667
QY 2041 C 2041
Db 3668 C 3668


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; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; LENGTH: 4414
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-32

Query Match      51.6%; Score 1054; DB 12; Length 4414;
Best Local Similarity 96.8%; Pred. No. 2.1e-294;
Matches 1075; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY      1 TCCTTCACAGCATTGGAGCTCCTGAAGACAAGTCATTGGCAGTTCATTGATGGAGAG 60
Db      1717 TCCTTCACAGCATTGGAGCTCCTGAAGACAAGTCATTGGCAGTTCATTGATGGAGAG 1776

QY      61 TGAAGTAAACCTGGACCGCTATCAACACAGCTTTAGAACAGTATTATCGTGGCTTCTTC 120
Db      1777 TGAAGTAAACCTGGACCGCTATCAACACAGCTTTAGAACAGTATTATCGTGGCTTCTTC 1836

QY      121 TGCTGAGGACACATTGCAACACCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
Db      1837 TGCTGAGGACACATTGCAACACCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1896

QY      181 CCAGTTTCACTACTGAGGGGTACATGATGGATTGTGACAGCCCATCAGGCGCGGTGG 240
Db      1897 CCAGTTTCACTACTGAGGGGTACATGATGGATTGTGACAGCCCATCAGGCGCGGTGG 1956

QY      241 TAATATTCTACAATTGGGAAGTAAAGCTGATGGAAACAGAGAAAATTATCAGAAGATGAAGA 300
Db      1957 TAATATTCTACAATTGGGAAGTAAAGCTGATGGAAACAGAGAAAATTATCAGAAGATGAAGA 2016

QY      301 AACTGAAGTACAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 360
Db      2017 AACTGAAGTACAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 2076

QY      361 TAGCATGGAACAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAATCAGAAACT 420
Db      2077 TAGCATGGAACAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAATCAGAAACT 2136

QY      421 GAAAGAGTTGAATGACTGCTGCTAAACAAAACAGAAAGAAAGAAAGAAATGGAGGAGA 480
Db      2137 GAAAGAGTTGAATGACTGCTGCTAAACAAAACAGAAAGAAAGAAAGAAATGGAGGAGA 2196

QY      481 GCCTCTTGGACCTGATCTTTGAGACCTTAAACGCCCAAGTACAAACATAAGGTGCTTCA 540
Db      2197 GCCTCTTGGACCTGATCTTTGAGACCTTAAACGCCCAAGTACAAACATAAGGTGCTTCA 2256

QY      541 AGAAGATCTAGAACAGAAACAAGTCAGGGTCAATTCTCTCACTCACATGGTGGTAGT 600
Db      2257 AGAAGATCTAGAACAGAAACAAGTCAGGGTCAATTCTCTCACTCACATGGTGGTAGT 2316

QY      601 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAGAAACAACCTAAGGTATTGGG 660
Db      2317 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAGAAACAACCTAAGGTATTGGG 2376

QY      661 AGATCGATGGCAACACATCTGTAGATGGACAGAACCCGCTGGTTCCTTTTACAAGACAT 720
Db      2377 AGATCGATGGCAACACATCTGTAGATGGACAGAACCCGCTGGTTCCTTTTACAAGACAT 2436

QY      721 CCTTCTCAAATGGCAACGCTCTTACTGAAGACAGTGCCTTTTGTAGTGCATGGCTTTCAGA 780
Db      2437 CCTTCTCAAATGGCAACGCTCTTACTGAAGACAGTGCCTTTTGTAGTGCATGGCTTTCAGA 2496

QY      781 AAAAGAAGATGCAGTGAACAAGATTTCACAACTGGCTTTTAAAGATCAAATGAAATGTT 840
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Db      2497 AAAAGAAGATGCAGTGAACAAGATTCACAACTGGCTTTAAAGATCAAAATGAAATGTT 2556

QY      841 ATCAAGTCTTCAAAAACACTGGCCGTTTTAAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db      2557 ATCAAGTCTTCAAAAACACTGGCCGTTTTAAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 2616

QY      901 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAGTGAC 960
Db      2617 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAGTGAC 2676

QY      961 CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAA 1020
Db      2677 CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAA 2736

QY      1021 ACTTGAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGA 1080
Db      2737 ACTTGAAAGAGTACAGCACAGACCCTTGAAAGACTCCAGGAACCTCAAGAGGGCCACGGA 2796

QY      1081 AAAGTTTCTTGCCTGGCTTACAGAAAGCTGA 1110
Db      2797 TGAGCTGGACCTCAAGCTGCGCCAAAGCTGA 2826

RESULT 11
US-09-782-378A-22
; Sequence 22, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 22
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-22

Query Match      51.1%; Score 1043.4; DB 10; Length 13957;
Best Local Similarity 99.9%; Pred. No. 5.4e-291;
Matches 1044; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCCTTCACAGCATTGGAGCTCCTGAAGACAAGTCATTGGCAGTTCATTGATGGAGAG 60
Db      1159 TCCTTCACAGCATTGGAGCTCCTGAAGACAAGTCATTGGCAGTTCATTGATGGAGAG 1218

QY      61 TGAAGTAAACCTGGACCGCTATCAACACAGCTTTAGAGAAGTATTATCGTGGCTTCTTC 120
Db      1219 TGAAGTAAACCTGGACCGCTATCAACACAGCTTTAGAGAAGTATTATCGTGGCTTCTTC 1278

QY      121 TGCTGAGGACACATTGCAAGCACCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
Db      1279 TGCTGAGGACACATTGCAAGCACCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1338

QY      181 CCAGTTTCACTACTGAGGGGTACATGATGGATTTCAGACCCCATCAGGCGCGGTGG 240
Db      1339 CCAGTTTCACTACTGAGGGGTACATGATGGATTTCAGACCCCATCAGGCGCGGTGG 1398

QY      241 TAATATTCTACAATTGGGAAGTAAAGCTGATTGGAACAGGAAAATTATCAGAAGATGAAGA 300
Db      1399 TAATATTCTACAATTGGGAAGTAAAGCTGATTGGAACAGGAAAATTATCAGAAGATGAAGA 1458

QY      301 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGCTAGC 360
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Db 1459 AACTGAAGTACAGAGCAGATGAATCTCCATAATTCAAGATGGGAATGCCTCAGGGTAGC 1518
QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTCTTAAATGGATCTCCAGAAATCAGAAACT 420
Db 1519 TAGCATGGAAAAACAAGCAATTTACATAGAGTCTTAAATGGATCTCCAGAAATCAGAAACT 1578
QY 421 GAAAGAGTTGAATGACTGGCTAACAAAAACAAGAAACAAGAAACAAGGAAAAATGGAGGAAGA 480
Db 1579 GAAAGAGTTGAATGACTGGCTAACAAAAACAAGAAACAAGGAAAAATGGAGGAAGA 1638
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAACGACACAAACATAAAGGTGCTTCA 540
Db 1639 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAACGACACAAACATAAAGGTGCTTCA 1698
QY 541 AGAAGATCTAGAACAAAGCAAGTCAAGGTCATCTCTCACTCACATGGTGGTGTAGT 600
Db 1699 AGAAGATCTAGAACAAAGCAAGTCAAGGTCATCTCTCACTCACATGGTGGTGTAGT 1758
QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGTATGGG 660
Db 1759 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGTATGGG 1818
QY 661 AGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGCTGGTCTTTTACAAACACAT 720
Db 1819 AGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGCTGGTCTTTTACAAACACAT 1878
QY 721 CCTTCTCAATGGCAACGCTTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTACAGA 780
Db 1879 CCTTCTCAATGGCAACGCTTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTACAGA 1938
QY 781 AAAAGAAGATGCAGTGAACAAAGATTCACACAACCTGGCTTTAAAGATCAAAAATGAATGTT 840
Db 1939 AAAAGAAGATGCAGTGAACAAAGATTCACACAACCTGGCTTTAAAGATCAAAAATGAATGTT 1998
QY 841 ATCAAGTCTTCAAAAACCTGGCGTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 900
Db 1999 ATCAAGTCTTCAAAAACCTGGCGTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 2058
QY 901 GGGCAAACTGTATTCACCTCAACAAGATCTCTTTCAACACTGAAGATAAGTCAGTGAC 960
Db 2059 GGGCAAACTGTATTCACCTCAACAAGATCTCTTTCAACACTGAAGATAAGTCAGTGAC 2118
QY 961 CCAGAAGACGGAGCATGGCTGGATAACTTTGCCCGGTGGTGGGATAATTTAGTCCAAAA 1020
Db 2119 CCAGAAGACGGAGCATGGCTGGATAACTTTGCCCGGTGGTGGGATAATTTAGTCCAAAA 2178
QY 1021 ACTGAAAAGAGTACAGCACAGACT 1045
Db 2179 ACTGAAAAGAGTACAGCACAGATT 2203

RESULT 12
US-09-880-107-2284
; Sequence 2284, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 2284
; LENGTH: 13957
; TYPE: DNA

; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M18533
US-09-880-107-2284
Query Match 51.1%; Score 1043.4; DB 10; Length 13957;
Best Local Similarity 99.9%; Pred. No. 5.4e-291;
Matches 1044; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCCTTCACAGCATTGGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTGATGGAGAG 60
Db 1159 TCCTTCACAGCATTGGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTGATGGAGAG 1218
QY 61 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAAAGTATTATCGTGGCTTCTTC 120
Db 1219 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAAAGTATTATCGTGGCTTCTTC 1278
QY 121 TGCTGAGGACACATTGCAAGGCACAGGAGAGATTCTAATGATGFGGAAGTGGTGAAGA 180
Db 1279 TGCTGAGGACACATTGCAAGGCACAGGAGAGATTCTAATGATGFGGAAGTGGTGAAGA 1338
QY 181 CCAGTTTCATACACTCATGAGGGGTACATGATGGATTGACAGCCCCATCAGGGCCGGGTGG 240
Db 1339 CCAGTTTCATACACTCATGAGGGGTACATGATGGATTGACAGCCCCATCAGGGCCGGGTGG 1398
QY 241 TAATATTCTACAAATTGGGAAGTAAAGCTGATTGGACAGGAAAAATATATCAGAAGATGAAGA 300
Db 1399 TAATATTCTACAAATTGGGAAGTAAAGCTGATTGGACAGGAAAAATATATCAGAAGATGAAGA 1458
QY 301 AACTGAAGTACAGAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 360
Db 1459 AACTGAAGTACAGAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 1518
QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTCTTAAATGGATCTCCAGAAATCAGAAACT 420
Db 1519 TAGCATGGAAAAACAAGCAATTTACATAGAGTCTTAAATGGATCTCCAGAAATCAGAAACT 1578
QY 421 GAAAGAGTTGAATGACTGGCTAAACAAAAACAAGAAAGAACAAGAAAAATGGAGGAAGA 480
Db 1579 GAAAGAGTTGAATGACTGGCTAAACAAAAACAAGAAAGAACAAGAAAAATGGAGGAAGA 1638
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAACGACACACATAAAGGTGCTTCA 540
Db 1639 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAACGACACACATAAAGGTGCTTCA 1698
QY 541 AGAAGATCTAGAACAAAGCAAGTCAAGGTCATTTCTCTCACTCACATGGTGGTGTAGT 600
Db 1699 AGAAGATCTAGAACAAAGCAAGTCAAGGTCATTTCTCTCACTCACATGGTGGTGTAGT 1758
QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAAACAACCTTAAGTATGGG 660
Db 1759 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAAACAACCTTAAGTATGGG 1818
QY 661 AGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGCTGGTCTTTTACAGACAT 720
Db 1819 AGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGCTGGTCTTTTACAGACAT 1878
QY 721 CCTTCTCAATGGCAACGCTTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTACAGA 780
Db 1879 CCTTCTCAATGGCAACGCTTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTACAGA 1938
QY 781 AAAAGAAGATGCAGTGAACAAGATTCAACACAACCTGGCTTTAAAGATCAAAAATGAATGTT 840
Db 1939 AAAAGAAGATGCAGTGAACAAGATTCAACACAACCTGGCTTTAAAGATCAAAAATGAATGTT 1998
QY 841 ATCAAGTCTTCAAAAACCTGGCGTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 900
Db 1999 ATCAAGTCTTCAAAAACCTGGCGTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 2058
QY 901 GGGCAAACTGTATTCACCTCAACAAGATCTCTTTCAACACTGAAGATAAGTCAGTGAC 960
Db 2059 GGGCAAACTGTATTCACCTCAACAAGATCTCTTTCAACACTGAAGATAAGTCAGTGAC 2118

QY 961 CCAGAGACGGAAGCATGGCTGGATAAAGTTTGCCTGGTGTGGGATAATTTAGTCCAAA 1020
Db 2119 CCAGAGACGGAAGCATGGCTGGATAAAGTTTGCCTGGTGTGGGATAATTTAGTCCAAA 2178
QY 1021 ACTTGAAGAGAGTACAGCAGACT 1045
Db 2179 ACTTGAAGAGAGTACAGCAGACT 2203

RESULT 13
US-09-845-416-14
; Sequence 14, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 3446
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-14

Query Match 51.1%; Score 1042; DB 12; Length 3446;
Best Local Similarity 96.8%; Pred. No. 5.5e-291;
Matches 1074; Conservative 0; Mismatches 35; Indels 1; Gaps 1;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTGATGGAGAG 60
Db 960 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTGATGGAGAG 1019

QY 61 TGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAAGAAAGTATATCGTGCTCTTTC 120
Db 1020 TGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAAGAAAGTATATCGTGCTCTTTC 1079

QY 121 TGCTGAGACACATTTGGAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGTGAAGA 180
Db 1080 TGCTGAGACACATTTGGAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGTGAAGA 1139

QY 181 CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTGG 240
Db 1140 CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTGG 1199

QY 241 TAATATTCTACAATTTGGGAAGTAAGCTGATTGGACAGGAAAATATCAGAGATGAAGA 300
Db 1200 TAATATTCTACAATTTGGGAAGTAAGCTGATTGGACAGGAAAATATCAGAGATGAAGA 1259

QY 301 AACTGAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCCTCAGGGTAGC 360
Db 1260 AACTGAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCCTCAGGGTAGC 1319

QY 361 TAGCATGGAACAAACAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT 420
Db 1320 TAGCATGGAACAAACAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT 1378

QY 421 GAAAGAGTTGAATGACTGGCTAACAAAACAGAGAAAGAACAGGAAAATGGAGGAAGA 480
Db 1379 GAAAGAGTTGAATGACTGGCTAACAAAACAGAGAAAGAACAGGAAAATGGAGGAAGA 1438

QY 481 GCCTCTTGACCTGATCTTGAAGACCTFAAACGCCAAGTACAAACATAGAGTGTCTTCA 540
Db 1439 GCCTCTTGACCTGATCTTGAAGACCTFAAACGCCAAGTACAAACATAGAGTGTCTTCA 1498

QY 541 AGAAGATCTAGAACAAAGACAAAGTCAGGGTCAATTTCTCTCAGTGGTGGTAGT 600
Db 1499 AGAAGATCTAGAACAAAGACAAAGTCAGGGTCAATTTCTCTCAGTGGTGGTAGT 1558

QY 601 TGATGAATCTAGTGGAGATCAGCAAACTGCTGCTTTGGAGAAACAACCTAAGGTATTGGG 660
Db 1559 TGATGAATCTAGTGGAGATCAGCAAACTGCTGCTTTGGAGAAACAACCTAAGGTATTGGG 1618

QY 661 AGATCGATGGCAAAACAICTGTAGATGGACAGAACCCGCTGGTTCCTTTACAAGACAT 720
Db 1619 AGATCGATGGCAAAACAICTGTAGATGGACAGAACCCGCTGGTTCCTTTACAAGACAT 1678

QY 721 CCTTCTCAAAATGGCAACGCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTCAGA 780
Db 1679 CCTTCTCAAAATGGCAACGCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTCAGA 1738

QY 781 AAAAGAAGATGCAGTGAACAAGATTCCACAACTGGCTTTAAAGATCAAAATGAAATGTT 840
Db 1739 AAAAGAAGATGCAGTGAACAAGATTCCACAACTGGCTTTAAAGATCAAAATGAAATGTT 1798

QY 841 ATCAAGTCTTCAAAAACCTGGCCGTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db 1799 ATCAAGTCTTCAAAAACCTGGCCGTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 1858

QY 901 GGCAGAACTGTATCACTCAACAAGATCTTCTTCAACACTGAAGAATAAGTCAGTGAC 960
Db 1859 GGCAGAACTGTATCACTCAACAAGATCTTCTTCAACACTGAAGAATAAGTCAGTGAC 1918

QY 961 CCAGAAGACGGAGCATGGCTGATAACTTTGCCGGTGTGGGATAATTTAGTCCAAAA 1020
Db 1919 CCAGAAGACGGAGCATGGCTGATAACTTTGCCGGTGTGGGATAATTTAGTCCAAAA 1978

QY 1021 ACTTGAAAAGAGTACAGCAGACATCATAGATTACTGCAACAGTTTCCCTCGGACCTGGA 1080
Db 1979 ACTTGAAAAGAGTACAGCAGACATCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGA 2038

QY 1081 AAAGTTTCTTGCTTGGCTTACAGAAAGCTGA 1110
Db 2039 TGAGCTGGACCTCAAGCTGCGCCCAAGCTGA 2068

RESULT 14
US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 51.0%; Score 1040.2; DB 12; Length 11058;
Best Local Similarity 99.7%; Pred. No. 3.9e-290;
Matches 1042; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTGATGGAGAG 60
Db 951 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTGATGGAGAG 1010

QY 61 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAACTATTATCGTGCTTCTTTC 120
Db 1011 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAACTATTATCGTGCTTCTTTC 1070

QY 121 TGCTGAGGACACATTTGAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGTGAAGA 180
Db 121 TGCTGAGGACACATTTGAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGTGAAGA 180

Db 1071 TGCTGAGGACACATTGC AAGCACAAAGGAGAGATTTC TAATGATGTGGAAGTGGTGAAGA 1130
QY 181 CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 240
Db 1131 CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 1190
QY 241 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGAAAATATCAGAAGATGAAGA 300
Db 1191 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGAAAATATCAGAAGATGAAGA 1250
QY 301 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTC AAGATGGGAATGCCTCAGGTFAGC 360
Db 1251 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTC AAGATGGGAATGCCTCAGGTFAGC 1310
QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTT TAATGGATCTCCAGAATCAGAAACT 420
Db 1311 TAGCATGGAAAAACAAGCAATTTACATAGAGTTT TAATGGATCTCCAGAATCAGAAACT 1370
QY 421 GAAAGAGTTGTAATGACTGGCTTAACAAAAACAGAAAGAAACAAGGAAAATGGAGGAAGA 480
Db 1371 GAAAGAGTTGTAATGACTGGCTTAACAAAAACAGAAAGAAACAAGGAAAATGGAGGAAGA 1430
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACAACATAAGGTGCTTCA 540
Db 1431 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACAACATAAGGTGCTTCA 1490
QY 541 AGAAGATCTAGAACAAAGAACTCAGGGTCAATTTCTC ACTCACATGGTGGTGGTGGT 600
Db 1491 AGAAGATCTAGAACAAAGAACTCAGGGTCAATTTCTC ACTCACATGGTGGTGGTGGT 1550
QY 601 TGATGAATCTAGTGGAGATCAGGCAACTGGCTTTT GGAAGAACAACTTAAGGTATTTGGG 660
Db 1551 TGATGAATCTAGTGGAGATCAGGCAACTGGCTTTT GGAAGAACAACTTAAGGTATTTGGG 1610
QY 661 AGATCGATGGGCAAAACATCTGTAGATGGACAGAA GACCGTGGTTCCTTTTACAAGACAT 720
Db 1611 AGATCGATGGGCAAAACATCTGTAGATGGACAGAA GACCGTGGTTCCTTTTACAAGACAT 1670
QY 721 CCTTCTCAAATGGCAACGTCCTTACTGAAGACAGT GCGCTTTTAGTGATGGCTTTTCAGA 780
Db 1671 CCTGCTCAAATGGCAACGTCCTTACTGAAGACAGT GCGCTTTTAGTGATGGCTTTTCAGA 1730
QY 781 AAAAGAAGATGCAGTGAACAAGATTCACACAAC TGGCTTTAAAGATCATAAATGAAATGTT 840
Db 1731 AAAAGAAGATGCAGTGAACAAGATTCACACAAC TGGCTTTAAAGATCATAAATGAAATGTT 1790
QY 841 ATCAAGTCTTCAAAAACACTGGCCGTTTAAAGCG GATCTAGAAAAGAAAAGCAATCCAT 900
Db 1791 ATCAAGTCTTCAAAAACACTGGCCGTTTAAAGCG GATCTAGAAAAGAAAAGCAATCCAT 1850
QY 901 GGGCAAACTGTATTCACTCAACAAGATCTTCTT CAACACTGAAGAATAAGTCAGTGAC 960
Db 1851 GGGCAAACTGTATTCACTCAACAAGATCTTCTT CAACACTGAAGAATAAGTCAGTGAC 1910
QY 961 CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCC CGGTGTGGGATAATTAGTCCAAAAA 1020
Db 1911 CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCC CGGTGTGGGATAATTAGTCCAAAAA 1970
QY 1021 ACTTGAAAAGAGTACAGCACAGACT 1045
Db 1971 ACTTGAAAAGAGTACAGCACAGACT 1995

RESULT 15
US-09-845-416-3
; Sequence 3, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1991
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-3

Query Match 50.8%; Score 1037.8; DB 12; Length 1991;
Best Local Similarity 99.8%; Pred. No. 6.3e-290;
Matches 1039; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCTTCACAGCATTTGG AAGCTCCTG AAGACAAGTCATTTGGCAGCTTCATTGATGGAGAG 60
Db 951 TCCTTCACAGCATTTGG AAGCTCCTG AAGACAAGTCATTTGGCAGCTTCATTGATGGAGAG 1010
QY 61 TGAAGTAAACCTGGAC CCGTTATCA AACACAGCTTTTAGAAGAAGTATTATCGTGGCTTCTTC 120
Db 1011 TGAAGTAAACCTGGAC CCGTTATCA AACACAGCTTTTAGAAGAAGTATTATCGTGGCTTCTTC 1070
QY 121 TGCTGAGGACACATTG C AAGCACAAAGGACAGATTTC TAATGATGTGGAAGTGGTGAAGA 180
Db 1071 TGCTGAGGACACATTG C AAGCACAAAGGACAGATTTC TAATGATGTGGAAGTGGTGAAGA 1130
QY 181 CCAGTTTCATACTCATG AGGGGTACATGATGGATTTG CAGCCCCATCAGGGCCGGTTGG 240
Db 1131 CCAGTTTCATACTCATG AGGGGTACATGATGGATTTG CAGCCCCATCAGGGCCGGTTGG 1190
QY 241 TAATATTCTACAATTT G GGAAGTAAGCTGATTTG GAAACAGGAAAATTTATCAGAAGATGAAGA 300
Db 1191 TAATATTCTACAATTT G GGAAGTAAGCTGATTTG GAAACAGGAAAATTTATCAGAAGATGAAGA 1250
QY 301 AACTGAAGTACAAGAG CAGATGAATCTCCTAAATTC AAGATGGGAATGCCTCAGGTTAGC 360
Db 1251 AACTGAAGTACAAGAG CAGATGAATCTCCTAAATTC AAGATGGGAATGCCTCAGGTTAGC 1310
QY 361 TAGCATGGAAAAACAAG CAAATTTACATAGAGTTT TAATGGATCTCCAGAATCAGAAACT 420
Db 1311 TAGCATGGAAAAACAAG CAAATTTACATAGAGTTT TAATGGATCTCCAGAATCAGAAACT 1370
QY 421 GAAAGAGTTGAATGACT GCTTGAAGACCTTAAACGCCAAGTACAAACAAGGAAAATGGAGGAAGA 480
Db 1371 GAAAGAGTTGAATGACT GCTTGAAGACCTTAAACGCCAAGTACAAACAAGGAAAATGGAGGAAGA 1430
QY 481 GCCTCTTGGACCTGATC TTGAAGACCTTAAACGCCAAGTACAAACAAGGAAAATGGAGTTCA 540
Db 1431 GCCTCTTGGACCTGATC TTGAAGACCTTAAACGCCAAGTACAAACAAGGAAAATGGAGTTCA 1490
QY 541 AGAAGATCTAGAACAA GACAAGTCAAGGTCATTTCTCTCACTCACATGGTGGTGGTGGT 600
Db 1491 AGAAGATCTAGAACAA GACAAGTCAAGGTCATTTCTCTCACTCACATGGTGGTGGTGGT 1550
QY 601 TGATGAATCTAGTGGAG ATCAGGCAACTGCTGCTTTTGG AAGAACAACTTAAGGTATTTGGG 660
Db 1551 TGATGAATCTAGTGGAG ATCAGGCAACTGCTGCTTTTGG AAGAACAACTTAAGGTATTTGGG 1610
QY 661 AGATCGATGGGCAAAAC ATCTGTAGATGGACAGAA GACCGTGGTTCCTTTTACAAGACAT 720
Db 1611 AGATCGATGGGCAAAAC ATCTGTAGATGGACAGAA GACCGTGGTTCCTTTTACAAGACAT 1670
QY 721 CCTTCTCAAATGGCAAC GTCCTTACTGAAGAACAGTGCCTTTT TAGTGATGGCTTTTCAGA 780
Db 1671 CCTGCTCAAATGGCAAC GTCCTTACTGAAGAACAGTGCCTTTT TAGTGATGGCTTTTCAGA 1730
QY 781 AAAAGAAGATGCAGTGA ACAAGATTCACACAAC TGGCTTTAAAGATCAAAAATGAAATGTT 840
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QY 841 ATCAAGTCTTCAAAAAC TGGCCGTTTAAAGCGGATCTAG AAAAGAAAAGCAATCCAT 900
Db 1971 ATCAAGTCTTCAAAAAC TGGCCGTTTAAAGCGGATCTAG AAAAGAAAAGCAATCCAT 1995

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Db 1791 ATCAAGTCCTTCAAAAACTGCCCGTTTAAAGCGGATCTAGAAAAAGCAATCCAT 1850
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QY 961 CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAA 1020
Db 1911 CCAGAAGACGGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAA 1970
QY 1021 ACTTGAAAAGAGTACAGCACA 1041
Db 1971 ACTTGAAAAGAGTACAGCACA 1991
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Search completed: September 24, 2003, 11:51:23
Job time : 488.352 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 ; Search time 112.947 Seconds
(without alignments)
7976.007 Million cell updates/sec

Title: US-09-845-416-6_COPY_1020_3060
Perfect score: 2041
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
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6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1242.6	60.9	5952	4	US-09-687-875A-1 Sequence 1, Appl
2	1242.6	60.9	13977	4	US-09-484-970B-60 Sequence 60, Appl
c 3	1060.2	51.9	19307	3	US-08-836-022A-10 Sequence 10, Appl
c 4	1060.2	51.9	19307	3	US-09-427-048A-10 Sequence 10, Appl
5	438.8	21.5	6045	4	US-09-091-501B-7 Sequence 7, Appl
6	438.8	21.5	10320	4	US-09-091-501B-9 Sequence 9, Appl
7	79.4	3.9	200	4	US-09-091-501B-5 Sequence 5, Appl
8	78.6	3.9	200	4	US-09-091-501B-4 Sequence 4, Appl
9	78.6	3.9	200	4	US-09-091-501B-6 Sequence 6, Appl
c 10	76.6	3.8	7218	1	US-08-232-463-14 Sequence 14, Appl
11	63.6	3.1	238	4	US-09-687-875A-13 Sequence 13, Appl
c 12	44	2.2	1230025	4	US-09-198-452A-1 Sequence 1, Appl
13	43.8	2.1	2574	4	US-09-668-313A-10 Sequence 10, Appl
14	43.4	2.1	1179	4	US-09-107-532A-1186 Sequence 1186, Ap
15	42.8	2.1	1690	4	US-09-620-312D-69 Sequence 69, Appl
16	42.8	2.1	7812	3	US-09-368-590-1 Sequence 1, Appl
17	40.4	2.0	2223	1	US-08-257-073-4 Sequence 4, Appl
18	39.2	1.9	16995	4	US-08-961-527-82 Sequence 82, Appl
19	38.6	1.9	1751	4	US-09-620-312D-847 Sequence 847, App
20	38.6	1.9	1995	1	US-08-425-069-3 Sequence 3, Appl
21	38.6	1.9	1995	2	US-08-317-844B-3 Sequence 3, Appl
22	38.4	1.9	7672	4	US-09-220-132-24 Sequence 24, Appl
23	38.2	1.9	1131	6	5180810-3 Patent No. 5180810
24	38.2	1.9	1784	6	5180810-2 Patent No. 5180810
c 25	38	1.9	1394	4	US-09-247-155-76 Sequence 76, Appl
26	37.4	1.8	428	4	US-09-668-313A-3 Sequence 3, Appl
27	37.4	1.8	4439	4	US-09-668-313A-17 Sequence 17, Appl

28	36.8	1.8	1886	6	5210183-1	Patent No. 5210183
29	36.6	1.8	1845	4	US-08-887-534A-22	Sequence 22, Appl
30	36.6	1.8	1845	4	US-09-527-431-22	Sequence 22, Appl
31	36.2	1.8	289	3	US-09-007-005-17	Sequence 17, Appl
32	36.2	1.8	289	3	US-09-244-796-17	Sequence 17, Appl
33	36.2	1.8	2447	2	US-09-014-969-14	Sequence 14, Appl
34	36.2	1.8	168575	4	US-09-426-290-1	Sequence 1, Appl
35	36	1.8	2873	4	US-08-630-915A-193	Sequence 193, App
36	35.8	1.8	790	3	US-09-461-474-13	Sequence 13, Appl
37	35.6	1.7	4868	1	US-08-139-937-12	Sequence 12, Appl
38	35.6	1.7	4868	5	PCT-US93-11310-12	Sequence 12, Appl
39	35.6	1.7	8257	4	US-09-595-684B-30	Sequence 30, Appl
40	35.6	1.7	8789	1	US-08-328-254-5	Sequence 5, Appl
41	35.6	1.7	10136	1	US-08-353-700-2	Sequence 2, Appl
42	35.6	1.7	10136	5	PCT-US95-16216-2	Sequence 2, Appl
43	35.2	1.7	3466	1	US-08-468-036-38	Sequence 38, Appl
44	35.2	1.7	3466	2	US-08-376-843-38	Sequence 38, Appl
45	35	1.7	2169	4	US-09-434-408-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; APPLICANT: LIU, PAUL
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLIC
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc_feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match 60.9%; Score 1242.6; DB 4; Length 5952;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1245; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY	853	GCTTACAGAAAGCTGAAACAAGTCCCAATGTCTACAGGATGCTACCCGTAAGAAAGGCT 912
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RESULT 2
US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.

; APPLICANT: Volkmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1
; NAME/KEY: unsure
; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60

Query Match 60.9%; Score 1242.6; DB 4; Length 13977;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1245; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 9160 AATTGGCCCTCTGAAAGAGAACGTCAGCCACGTCACCTGATCACTGCTCGCCAGCTTACCAC 9219
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QY 1873 CTTTGGCCAGCATCTCAGCAGCTTCTTCCAGCTCTGTCAGGCTCCCTGGGAGAGAGC 1932
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QY 1933 CATCTCGCCAAACAAAGTGCCTTACTATATCAACCCAGGAGCTCAACAACTGCTGGGA 1992
Db 9400 CATCTCGCCAAACAAAGTGCCTTACTATATCAACCCAGGAGCTCAACAACTGCTGGGA 9459
QY 1993 CCATCCCAAATGACAGAGCTCTACAGCTCTTACGCTGACCTGAATAAT 2041
Db 9460 CCATCCCAAATGACAGAGCTCTACAGCTCTTACGCTGACCTGAATAAT 9508

RESULT 3

US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 6001557

GENERAL INFORMATION:

; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A

FILING DATE:

; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNPVN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200

; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA
US-08-836-022A-10

Query Match 51.9%; Score 1060.2; DB 3; Length 19307;
Best Local Similarity 90.6%; Pred. No. 0;
Matches 1131; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY 793 GGTACCTACTCATATGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAGTTTCTTGCCTG 852
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QY 1093 CAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTTAGTCCCATTTTGGAGCCAGTTC 1152
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QY 1153 TGACCAGTGGGAAGCGCTCTGCACCTTTCTCTGAGGAACTTTCTGGTGTGGCTACAGCTGAA 1212
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Db 5354 CTTTGGTCCAGCATCCAGCAGCTTCTTTCCAGCTCAGTTCAGGGTCCCTGGGAGAGAGC 5295
QY 1933 CATCTCGCCAAACAAAGTGCCTTACTATATCAACCACGAGACTCAACAACTTGTCTGGGA 1992
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RESULT 5

US-09-091-501B-7
; Sequence 7, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utirophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 6045
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(6037)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chimeric
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-7

Query Match 21.5%; Score 438.8; DB 4; Length 6045;
Best Local Similarity 60.3%; Pred. No. 6.2e-126;
Matches 747; Conservative 0; Mismatches 482; Indels 9; Gaps 1;
QY 813 TGCAACAGTTCCCTGGACCTGGAAGTTTCTTCCCTGGCTTACAGAGAGTGAACAA 872
Db 3069 TGCAGGCTCTCGCAGAGATCTGGAAGACTTCTCTGAAGTGGATCCCAAGAGAGAGCA 3128
QY 873 CTGCCAATGTCCTACAGGATGTCACCGTAAGAAAGGCTCCTAGAAGACTCCAAGGGAG 932
Db 3129 CAGTGAATGTCTTGTGGATGCCCTCATCGGAGAAATGCTCTTCAGGATAGTATCTTGG 3188
QY 933 TAAAGAGCTGATGAACAAATGGCAAGACCTCCAAGGTGAATTAAGCTCACACAGATG 992
Db 3189 CCAGGGAACCTCAACACAGAGATGCAGGACATCCAGGCAGAAATGATGCCCAATGACA 3248
QY 993 TTATCACAACCTGGATGAAACAGCCAAATAAATCTCTGAGATCCCTGGAGGTCCGATG 1052
Db 3249 TATTTAAAGCATTGACGGAAACAGGCAGAGAGTGGTAAAGCTTTGGGAATCTGAAG 3308

QY 1053 ATGCAGTCTCTGTACAAAGACGTTTGGATACATGAACCTCAAGTGGAGTGAACCTTCGGA 1112
Db 3309 AGGCTACTATGCTTCAACATCGACTGGATGATATGAACCAAGATGGAATGACTTAAAG 3368
QY 1113 AAAAGTCTCTCAACATTAGGTCCCATTTGGAGCCAGTTTGTACACCAGTGAAGCGTCTGC 1172
Db 3369 CAAAATCTGCTAGCATCAGGGCCCATTTGGAGCCAGCGCTGAGAAAGTGAACAGGTTC 3428
QY 1173 ACCTTTCTCTGCAGGAACTTCTGGTGTGGCTACAGCTGAAGATGATGAATTAAGCCGCG 1232
Db 3429 TGATGTCTTTAGAAGAACTGATCAAAATGGTGAATATGAAGATGAAGAGCTTAAGAAC 3488
QY 1233 AGGCACCTATTGGAGGCGACTTTCAGCAGTTCAGAAGCAGAACGATGTACATAGGGCT 1292
Db 3489 AAATGCCTATTGGAGGAGATGTTCCAGCCTTACAGCTCCAGTATGACCATTTAAGGCC 3548
QY 1293 TCAAGAGGGAATTGAAAACCTAAAGAACCTGTAATCATGAGTACTCTTTGAGACTGTACGA 1352
Db 3549 TGAGACGGGAGTTAAAGGAGAAAGATATTTCTGCTCCTGAATGCTGTGACAGGCCGCGAG 3608
QY 1353 TATTTCTGACAGAGCAGCCTTT-----GGAAGACTAGAGAAACTTACCAGGAGC 1403
Db 3609 TTTTCTTGGCTGATCAGCCCAATTGAGGCCCTGAAGAGCCCAAGAAACCTACAATCAA 3668
QY 1404 CCAGAGAGCTGCTCCTGAGGAGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGG 1463
Db 3669 AACAGAAATTAATCTCTGAGGAGAGAGAGCCCAAGATTTGCCAAAGCCATGCGCAACAGT 3728
QY 1464 CTGAGGAGGTCAATACTGAGTGGGAAAAATTAACCTGCACTCCGCTGAGTGGCAGAGAA 1523
Db 3729 CTTCTGAAGTCAAGAAAAATGGGAAAGTCAAAATGCTGAATGAGCAATTTGGCAAAAGC 3788
QY 1524 AAATAGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGCCACGGATGAGCTGGACC 1583
Db 3789 AAGTGACAAGGCATTTGGAGAACTCAGAGACTTCAGAGGAGCTATGGATGACCTGGACG 3848
QY 1584 TCAAGCTGCGCAAGCTGAGTGCATCAAGGATCCTGGAGCCCGTGGGAGATCTCCTCA 1643
Db 3849 CTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGGAGACTTACTCA 3908
QY 1644 TTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTCGAGGAGAAATTTGGCCTC 1703
Db 3909 TTGACTCGCTGCAGGATCACATTTGAAAAATCATGGCATTTAGAGAAGAAATTCACCAA 3968
QY 1704 TGAAGAGAACGTGAGCCACGTCAATGACCTTGTCTGCCAGCTTACCCTTTGGCATTC 1763
Db 3969 TCAACTTTAAAGTTAAACGGTGAATGATTTATCCAGTCACTGTCTCCACTTGACCTGC 4028
QY 1764 AGCTCTCACCGTATAACCTCAGCAGCTCTGGAAGACCTGAACACACAGATGGAAGCTTTCG 1823
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QY 1824 AGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGTCCAG 1883
Db 4089 AGGTTTCTGTGGATGATCGCCTTAAACAGCTTCAGGAAGCCACAGAGATTTGGACCAT 4148
QY 1884 CACTCAGCACTTCTTTCCAGTCTGTCCAGGTCCCTGGGAGAGAGGATCTCGCCAA 1943
Db 4149 CCTCTCAGCACTTCTCTCTAGTCACTCCAGCTGCCGTGCGCAAGATCCATTTACATA 4208
QY 1944 ACAGAGTGCCTTACTATATCAACCACGAGACTCAACAACTTGTCTGGGACCATCCCAAAA 2003
Db 4209 ATAAAGTGCCCTATTACATCAACCATCAACACAGACCCACTGTTGGGACCATCCTTAAA 4268
QY 2004 TGACAGAGCTCTACAGCTTTTAGCTGACCTGAATAAT 2041
Db 4269 TGACCGAACTCTTTCAATCCCTGCTGCTGACCTGAATAAT 4306

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; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 10320
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(10312)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Full length
; OTHER INFORMATION: utrophin construct
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-9
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Query Match 21.5%; Score 438.8; DB 4; Length 10320;
Best Local Similarity 60.3%; Pred. No. 9.1e-126;
Matches 747; Conservative 0; Mismatches 482; Indels 9; Gaps 1;

QY 813 TGCACAGTCCCTGGACCTGGAAAAGTTTCTTCCTGGCTTACAGAGCTGAAACAA 872
Db 7344 TGCAGGCTCTCGCAGAGATCTGGAAAACCTTCTGAGTGGATCCAAAGAACGACACCA 7403

QY 873 CTGCCAATCTCCTACAGGATGCTACCCGTAAGGAAGGCTCCTAGAAGACTCCAGGGAG 932
Db 7404 CAGTGAATGTGCTTGTGGATGCCTCTCATCGGGAGAAATGCTCTTCAGGATAGTATCTTGG 7463

QY 933 TAAAGAGCTGATGAACAATGGCAAGACCTCCAAAGTGAAATTAAGAGCTCACACAGATG 992
Db 7464 CCAGGGAACCTCAACAGCAGATGCAGGACATCCAGGAGAAATTTGATGCCACAAATGACA 7523

QY 993 TTTATCACAACTGGATGAAAACAGCCAAAATCCTGAGATCCCTGGAGGTTCCCGATG 1052
Db 7524 TATTTAAAGCATTCACGGAACAGCAGAGATGGTAAAGCTTTGGAAATTTGTAAG 7583

QY 1053 ATGCAGTCTGTACAAAGACGTTTGGATAACATGAACCTCAAGTGGAGTGAACCTCGGA 1112
Db 7584 AGGCTACTATGCTTCAACATCGACTGGATGATATGAACCAAGATGAATGACITAAAAG 7643

QY 1113 AAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAAGTGAAGCGTCTGC 1172
Db 7644 CAAAATCTGTAGCATCAGGGCCCATTTGGAGGCCCGCTGAGAGTGAACAGGTTGC 7703

QY 1173 ACCTTTCTGTCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGC 1232
Db 7704 TGATGTCTTAGAAGAACTGATCAAAATGGCTGAATATGAAGATGAAGAGCTTAAGAAAC 7763

QY 1233 AGGCACCTATTGGAGGCGACTTTCCAGCAGTTCCAGAGCAGAACATGTACATAGGCGCT 1292
Db 7764 AAATGCCTATTGGAGGAGATGTTCCAGCCTTACAGCTCCAGTATGACCATTTGTAAGGCC 7823

QY 1293 TCAAGAGGAATTAAGAACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTACGAA 1352
Db 7824 TGAGACGGGAGTTAAAGGAGAAAGAAATATCTGTCTCTGATGCTGTGCGACCGCCGAG 7883
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QY 1353 TATTCTTGACAGAGAGCCCTTT-----GGAAGGACTAGAGAAAACCTTACCAGGAGC 1403
Db 7884 TTTCTTGGCTGATCAGCCAATTGAGGCCCTCAAGAGCCCAAGAAAGAACCTACAAATCAA 7943

QY 1404 CCAGAGAGCTGCCCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCTAGAAAAGCAGG 1463
Db 7944 AAACAGAATTAACCTCTGAGGAGAGAGCCCAAGATTTGCCAAAGCCATGCGCAACAGT 8003

QY 1464 CTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAGA 1523
Db 8004 CTTCTGAAGTCAAAAGAAAATGGGAAAGTCTTAATGCTGTAACTAGCAATGGCAAAAGC 8063

QY 1524 AAATAGATGAGACCCCTTTGAAAGACTCCAGGAATTTCAAGAGGCCACGGATGAGCTGGAC 1583
Db 8064 AAGTGACAAAGGCATTGGAGAAACTCAGAGACTGCAGGGAGCTATGGATGACCTGGACG 8123

QY 1584 TCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATTCCTGGCAGCCCGTGGCGATCTCCTCA 1643
Db 8124 CTGACATGAAGGAGGAGAGATCCGTGCGGAATGGCTGGAAGCCCGTGGAGACTTACTCA 8183

QY 1644 TTGACTCTCTCCAAAGATCACTCCAGAAAAGTCAAGGCACCTTCGAGGAGAAATTCGCGCTC 1703
Db 8184 TTGACTCGCTGCAGGATCACATTTGAAAAATCATGGCATTTAGAGAAAGAAATTCACCAA 8243

QY 1704 TGAAGAGAAACGTGAGCCACGTCACACTCTGGAAGACCTGAACACACAGATGGAGCTTCTGC 1763
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QY 1764 AGCTCTCACCCGTATAACCTCAGCACTCTGGAAGACCTGAACACACAGATGGAGCTTCTGC 1823
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QY 1824 AGTGGCCGTCGAGGACCGAGTCAGGTCAGGTCAGTGCATGAAGCCACAGGAGCTTGGTCCAG 1883
Db 8364 AGTTTCTGTGGATGATCGCTTAAACAGCTTCAGGAAGCCACAGAGATTTGGACCAT 8423

QY 1884 CATCTCAGCACTTTCTTTCCACGTTGTCCAGGTCCTCCAGGTCCTGGAGAGAGAGCCATCTCGCAA 1943
Db 8424 CCTCTCAGCATTTTCTCTCTACGTCAGTCCAGTCCGCTGGCAAGATCCATTTTACATA 8483

QY 1944 ACAAGTGCCTACTATATATCAACACAGAGACTCAAAACAACTTGTGGGACCATCCCAAAA 2003
Db 8484 ATAAAGTGCCTATTATACATCAACCATCAACACACAGACCACTGTGTGGACCATCTCTAAA 8543

QY 2004 TGACAGAGCTCTACCACTCTTTAGCTGACCTGAATAAT 2041
Db 8544 TGACCGAACTCTTTCAATCCCTTGTGCTGACCTGAATAAT 8581
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RESULT 7
US-09-091-501B-5
; Sequence 5, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 200
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; LOCATION: (900001)..(915000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature

Query Match      2.2%; Score 44; DB 4; Length 1230025;
Best Local Similarity 53.5%; Pred. No. 0.4;
Matches 92; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 222 AATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGATCTCTCTCAATTCAAGAT 281
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Db 656477 AATTAGAAGAAGAGAGAGAGAGAAATTGAGGATATCAAGAGACTCAGATACAAAAT 656418

QY 282 GGGATGCCCTCAGGCTAGCTAGCATGCGTGAAGAAACAAAGCAATTACATAGAGTTTAAATGG 341
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Db 656417 GGGTTTCGATCACTCAAGCTGCTAAATTACATTAAGCTCACTAGGCAAGCAATTTATGTGG 656358

QY 342 ATCTCCAGAATCAGAAACTGAAGAGAGTTGAATGACTGGCTAAACAAAACAGA 393
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 656357 CAATTAAGCAGAAAAAACTAAAGCTTCTAAAGAGACGCGCTGGGAAATAGA 656306

RESULT 13
US-09-668-313A-10
; Sequence 10, Application US/09668313A
; Patent No. 6503756
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Susan M. Freier
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF SYNTAXIN 4 INTERACTING PROTEIN EXPRESSION
; FILE REFERENCE: RTS-0127
; CURRENT APPLICATION NUMBER: US/09/668,313A
; CURRENT FILING DATE: 2000-09-22
; NUMBER OF SEQ ID NOS: 247
; SEQ ID NO 10
; LENGTH: 2574
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (218)...(1891)
US-09-668-313A-10

Query Match      2.1%; Score 43.8; DB 4; Length 2574;
Best Local Similarity 60.5%; Pred. No. 0.0061;
Matches 72; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1922 TGGGACAGAGCCATCTGCCCAACAAAGTGCCCTACTATATCAACCACGAGACTCAACA 1981
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Db 1733 TGGGAGGAAGCTTACACAGCAGATGGAATCAAGTACTTCAATCAACCACGTCACACAGACC 1792

QY 1982 ACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAA 2040
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Db 1793 ACGTCCTGGATCCACCCCGTGTGATGAGCGCCCTGAACCTGTCTCTGTGCAGAGAGAGTGA 1851

RESULT 14
US-09-107-532A-1186
; Sequence 1186, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:

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; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 1186:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1179 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...1179
; SEQUENCE DESCRIPTION: SEQ ID NO: 1186:
US-09-107-532A-1186

Query Match      2.1%; Score 43.4; DB 4; Length 1179;
Best Local Similarity 50.7%; Pred. No. 0.0047;
Matches 104; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 351 ATCAGAAACTGAAGAGATTGTAATGACTGGCTAAACAAAGAGAAAGAAACAAAGGAAAA 410
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Db 602 AGCAAAGAATAAAAGATTGTGATCGATCAGACAAAGAAAGAAATGGAGATACGATCGGAGGAA 661

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Db 662 TTGTAGAAGTGCTCGTTGGAGCGCTTCCAGTGGATTAGGAAGCTACGTACATGGGACA 721

QY 471 AGTGCTTCAAGAAGATCTAGAACAAAGAACAGTCAGGGTCAATTCTCTCACTCATGG 530
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Db 722 CGAAGCTAGATGCCAAAATCGCACAGCTGTGGTTAGTATCAATGCCITTAAGGCGTAG 781

QY 531 TGGTGGTAGTTGATGAATCTAGTGG 555
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Db 782 AATTGGGTCGGATTCACTTCTGG 806

RESULT 15
US-09-620-312D-69
; Sequence 69, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui

```

/ APPLICANT: Zhou, Ping
/ APPLICANT: Ma, Yunging
/ APPLICANT: Wang, Dunrui
/ APPLICANT: Wang, Zhiwei
/ APPLICANT: John Tillinghast
/ APPLICANT: Drmanac, Radoje T.
/ TITLE OF INVENTION: No. 6569662e1 Nucleic Acids and
/ TITLE OF INVENTION: Polypeptides
/ FILE REFERENCE: 784CIP2B
/ CURRENT APPLICATION NUMBER: US/09/620,312D
/ CURRENT FILING DATE: 2000-07-19
/ PRIOR APPLICATION NUMBER: 09/552,317
/ PRIOR FILING DATE: 2000-04-25
/ PRIOR APPLICATION NUMBER: 09/488,725
/ PRIOR FILING DATE: 2000-01-21
/ NUMBER OF SEQ ID NOS: 1105
/ SOFTWARE: pt_FL_genes Version 1.0
/ SEQ ID NO 69
/ LENGTH: 1690
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (128)..(1522)
US-09-620-312D-69

Query Match		2.1%;	Score 42.8;	DB 4;	Length 1690;
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Db	55	CAAGGAGTTGCACCAAGTGGCCACGACCTGGACGACGAGCTGGCATGGGTTTCAGGAGCG	114		
QY	1609	CAGGGA--TCCTGGCAGCCCGTGGGGATCTCCTCATTTGACTCTCTCCAAGATCACCT	1665		
Db	115	GCTGCCACTGGCCATGCAGACAGCGAGGCAACGGTTTGCAGGGGTCACAGCACAT	174		
QY	1666	CGAGAAAGTCAGGCACCTTCGAGGAGAAATTGGCCCTCTGAAAGAGAACGTGAGCCACGT	1725		
Db	175	CAAAAGAACCAAGGCCCTGCGGGGGAGATCCAGGCGCATGGGCCGCGCTGGAGGAGGT	234		
QY	1726	CAATGACCTTGCTGCCAGCTTACCACTTTTGGSCATTTCAGCTCTCACCGTATAACCTCAG	1785		
Db	235	GCTGAGCGCGCGGGCGGCTGCGGTCGCTGGCAGCCCCGAGGCGAGAGCAGTGCGCGCG	294		
QY	1786	CACCTGTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGT	1845		
Db	295	GGGCTGGAGCAGCTGCAGAGCGCCTGGGCCGACTGCGGGAGGCTGCCGAGCGCAGCGCA	354		
QY	1846	CAGGAGCTGCATGAAGCCACAGGG	1871		
Db	355	GCAGTGCTGGACGCCGCCCTTCCAGG	380		

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Job time : 115.113 secs

GenCore version 5.1.16
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 23:43:25 ; Search time 472.352 Seconds
(without alignments)
10756.909 Million cell updates/sec

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1678620 seqs, 1244745471 residues

Total number of hits satisfying chosen parameters: 3357240

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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2	2041	100.0	4966	12	US-09-845-416-28	Sequence 28, Appl
3	2041	100.0	4990	12	US-09-845-416-34	Sequence 34, Appl
4	1749	85.7	3858	12	US-09-845-416-9	Sequence 9, Appli
5	1749	85.7	4825	12	US-09-845-416-29	Sequence 29, Appl
6	1749	85.7	4848	12	US-09-845-416-35	Sequence 35, Appl
7	1749	85.7	5060	12	US-09-845-416-36	Sequence 36, Appl
8	1702.8	83.4	4182	12	US-09-845-416-2	Sequence 2, Appli
9	1702.8	83.4	5149	12	US-09-845-416-27	Sequence 27, Appl
10	1242.6	60.9	11058	12	US-09-845-416-1	Sequence 1, Appli
11	1242.6	60.9	13957	10	US-09-782-378A-22	Sequence 22, Appl
12	1242.6	60.9	13957	10	US-09-880-107-2284	Sequence 2284, Ap
13	1242	60.9	2169	12	US-09-845-416-4	Sequence 4, Appli
14	1242	60.9	3531	12	US-09-845-416-10	Sequence 10, Appl
15	1242	60.9	4498	12	US-09-845-416-30	Sequence 30, Appl
16	1053	51.6	3510	12	US-09-845-416-12	Sequence 12, Appl

17	1053	51.6	4476	12	US-09-845-416-31	Sequence 31, Appl
18	895	43.9	1821	12	US-09-845-416-13	Sequence 13, Appl
19	658.4	32.3	4414	12	US-09-845-416-32	Sequence 32, Appl
20	658	32.2	1991	12	US-09-845-416-3	Sequence 3, Appli
21	657	32.2	1667	12	US-09-845-416-7	Sequence 7, Appli
22	646.4	31.7	3446	12	US-09-845-416-14	Sequence 14, Appl
23	508	24.9	1434	12	US-09-845-416-15	Sequence 15, Appl
24	438.8	21.5	10302	10	US-09-782-378A-23	Sequence 23, Appl
25	426.8	20.9	16531	12	US-10-101-510-667	Sequence 667, App
26	330	16.2	1340	12	US-09-845-416-11	Sequence 11, Appl
27	153.4	7.5	467	9	US-09-864-761-11083	Sequence 11083, A
28	151	7.4	151	9	US-09-864-761-27715	Sequence 27715, A
29	140.8	6.9	147	12	US-09-845-416-8	Sequence 8, Appli
30	140.2	6.9	256	9	US-09-864-761-21956	Sequence 21956, A
31	124	6.1	466	9	US-09-864-761-6092	Sequence 6092, Ap
32	80	3.9	517	13	US-10-027-632-88865	Sequence 88865, A
33	49	2.4	3987	14	US-10-198-846-12468	Sequence 12468, A
34	49	2.4	9274	10	US-09-885-535-3	Sequence 3, Appli
c 35	43	2.1	436	10	US-09-960-352-10742	Sequence 10742, A
36	42.8	2.1	1690	14	US-10-037-270-69	Sequence 69, Appl
37	42.2	2.1	423	9	US-09-864-761-18355	Sequence 18355, A
38	41.8	2.0	592	13	US-10-027-632-304596	Sequence 304596,
c 39	41	2.0	6455	12	US-10-017-161-963	Sequence 963, App
c 40	40.6	2.0	425	10	US-09-960-352-4010	Sequence 4010, Ap
41	40.4	2.0	428	10	US-09-864-864-204	Sequence 204, App
42	40.4	2.0	599	14	US-10-198-846-4738	Sequence 4738, Ap
c 43	40.4	2.0	635	13	US-10-027-632-269927	Sequence 269927,
44	40.4	2.0	1735	12	US-09-814-353-21833	Sequence 21833, A
c 45	40.4	2.0	6132	12	US-10-311-455-1963	Sequence 1963, Ap

ALIGNMENTS

RESULT 1
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match	100.0%;	Score 2041;	DB 12;	Length 3999;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2041;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
QY	1	TGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAGAAGTATATCGTGCTTCTTTC	60	
Db	1020	TGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAGAAGTATATCGTGCTTCTTTC	1079	
QY	61	TGCTGAGCACACATTGCAAGCACACAGGAGAGATTCTTAATGATGTGGAAGTGAAGA	120	
Db	1080	TGCTGAGCACACATTGCAAGCACACAGGAGAGATTCTTAATGATGTGGAAGTGAAGA	1139	
QY	121	CCAGTTTCTACTCATGAGGGGTACATGATGGATTTCACAGCCCATCAGGGCCGGTTGG	180	
Db	1140	CCAGTTTCTACTCATGAGGGGTACATGATGGATTTCACAGCCCATCAGGGCCGGTTGG	1199	
QY	181	TAATATTCTACAATTGGGAAGTAAGCTGATTGGACAGGAAATATCATCAGACATGAAGA	240	

Db 1200 TAATATTCTACAATTGGGAAGTAAGCTGAATTGGAAACAGGAAATATATCAGAAGATGAAGA 1259

QY 241 AACTGAAGTACAAAGACGAGATGAATCTCCTAAATTCAAAGATGGGAATGCTCAGGGTAGC 300

Db 1260 AACTGAAGTACAAAGACGAGATGAATCTCCTAAATTCAAAGATGGGAATGCTCAGGGTAGC 1319

QY 301 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAATCAGAACT 360

Db 1320 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAATCAGAACT 1379

QY 361 GAAAGAGTTGAATGACTGGCTAACAACAAACAGAAAGAAAGAAATGGAGGAAGA 420

Db 1380 GAAAGAGTTGAATGACTGGCTAACAACAAACAGAAAGAAAGAAATGGAGGAAGA 1439

QY 421 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAAACAACATAAGGTGCTTCA 480

Db 1440 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAAACAACATAAGGTGCTTCA 1499

QY 481 AGAAGATCTAGAAACAAGAACATCTGTAGATGGACAGAGTCAATTTCTCTCACTCACATGGTGGTAGT 540

Db 1500 AGAAGATCTAGAAACAAGAACATCTGTAGATGGACAGAGTCAATTTCTCTCACTCACATGGTGGTAGT 1559

QY 541 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTGGAAACAACAACTPAAGGTATTGGG 600

Db 1560 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTGGAAACAACAACTPAAGGTATTGGG 1619

QY 601 AGATCGATGGCAACACATCTGTAGATGGACAGAGACCGCTGGGTCTCTTTTACAAGACCA 660

Db 1620 AGATCGATGGCAACACATCTGTAGATGGACAGAGACCGCTGGGTCTCTTTTACAAGACCA 1679

QY 661 GCCTGACCTAGCTCCTGGACTGACCACATATTGGAGCCTCTCCTACTCAGACTGTTACTCT 720

Db 1680 GCCTGACCTAGCTCCTGGACTGACCACATATTGGAGCCTCTCCTACTCAGACTGTTACTCT 1739

QY 721 GGTGACACAACCTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 1780

Db 1740 GGTGACACAACCTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 1799

QY 781 CTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAGTCCCTCCCTGGACCTGGAAA 840

Db 1800 CTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAGTCCCTCCCTGGACCTGGAAA 1859

QY 841 GTTCTTGCTGGCTTACAGAAGCTGAAACAACCTGCCATGCCAATPCCTACAGGATGTACCCG 900

Db 1860 GTTCTTGCTGGCTTACAGAAGCTGAAACAACCTGCCAATPCCTACAGGATGTACCCG 1919

QY 901 TAAGGAAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAATGGCAAGA 960

Db 1920 TAAGGAAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAATGGCAAGA 1979

QY 961 CCTCCAAGGTGAATGAACTCACACAGATGTTTATCACAACCTGGATGAAAACAGCCA 1020

Db 1980 CCTCCAAGGTGAATGAACTCACACAGATGTTTATCACAACCTGGATGAAAACAGCCA 2039

QY 1021 AAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGG 1080

Db 2040 AAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGG 2099

QY 1081 TAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTTAGGTCCCATTT 1140

Db 2100 TAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTTAGGTCCCATTT 2159

QY 1141 GGAAGCAGTCTGTACACAGTGGAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGGTGTG 1200

Db 2160 GGAAGCAGTCTGTACACAGTGGAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGGTGTG 2219

QY 1201 GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGCGGACTTTCCAGC 1260

Db 2220 GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGCGGACTTTCCAGC 2279

QY 1261 AGTTCAGAAGCAGAACGATGTACATAGGGCCTTCAAGAGGGGAATTGAAACTAAAGAACC 1320

Db 2280 AGTTCAGAAGCAGAACGATGTACATAGGGCCTTCAAGAGGGGAATTGAAACTAAAGAACC 2339

QY 1321 TGTAAATCATGACTACTCTTGAGACTGTACGAAATATTTTCTGACAGAGCAGCCCTTTGGAAGG 1380

Db 2340 TGTAAATCATGACTACTCTTGAGACTGTACGAAATATTTTCTGACAGAGCAGCCCTTTGGAAGG 2399

QY 1381 ACTAGAGAAACTCTACCAGAGCCCAGAGAGCTGCCCTCTGAGGAGAGAGCCAGATGT 1440

Db 2400 ACTAGAGAAACTCTACCAGAGCCCAGAGAGCTGCCCTCTGAGGAGAGAGCCAGATGT 2459

QY 1441 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATGAAACCT 1500

Db 2460 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATGAAACCT 2519

QY 1501 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAACCTCA 1560

Db 2520 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAACCTCA 2579

QY 1561 AGAGGCCACGGATGAGCTGGACCTCAAGCTCGGCCAAGCTGAGGTGATCAAGGGATCCTG 1620

Db 2580 AGAGGCCACGGATGAGCTGGACCTCAAGCTCGGCCAAGCTGAGGTGATCAAGGGATCCTG 2639

QY 1621 GCAGCCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGC 1680

Db 2640 GCAGCCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGC 2699

QY 1681 ACTTCGAGGAGAAAATTGGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCG 1740

Db 2700 ACTTCGAGGAGAAAATTGGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCG 2759

QY 1741 CCAGCTTACCAGTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 1800

Db 2760 CCAGCTTACCAGTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 2819

QY 1801 GAACACCAGATGGAAGCTTCTGCAGGTGGCGCTCGAGGACCGAGTCAGGCAGCTGCATGA 1860

Db 2820 GAACACCAGATGGAAGCTTCTGCAGGTGGCGCTCGAGGACCGAGTCAGGCAGCTGCATGA 2879

QY 1861 AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCTGCCAGGCTCC 1920

Db 2880 AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCTGCCAGGCTCC 2939

QY 1921 CTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACCAGGAGACTCAAAC 1980

Db 2940 CTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACCAGGAGACTCAAAC 2999

QY 1981 AACTTGCTGGGACCATCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAA 2040

Db 3000 AACTTGCTGGGACCATCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAA 3059

QY 2041 T 2041

Db 3060 T 3060

RESULT 2

US-09-845-416-28

; Sequence 28, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 28

; LENGTH: 4966

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-28

Query Match		100.0%;	Score 2041;	DB 12;	Length 4966;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 2041;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTAGAAGAAAGTATTATCGTGGCTCTTTC	60		
Db	1777	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTAGAAGAAAGTATTATCGTGGCTCTTTC	1836		
QY	61	TGCTGAGGACACATTGCAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA	120		
Db	1837	TGCTGAGGACACATTGCAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA	1896		
QY	121	CCAGTTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCCATCAGGGCCGGTTGG	180		
Db	1897	CCAGTTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCCATCAGGGCCGGTTGG	1956		
QY	181	TAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGAAAATTATCAGAAGATGAAGA	240		
Db	1957	TAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGAAAATTATCAGAAGATGAAGA	2016		
QY	241	AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGATGGGAATGCCCTCAGGGTAGC	300		
Db	2017	AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGATGGGAATGCCCTCAGGGTAGC	2076		
QY	301	TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT	360		
Db	2077	TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT	2136		
QY	361	GAAAGAGTTGAATGACTGGCTAAACAAACAGAGAAGAAACAAAGGAAAATGGAGGAAGA	420		
Db	2137	GAAAGAGTTGAATGACTGGCTAAACAAACAGAGAAGAAACAAAGGAAAATGGAGGAAGA	2196		
QY	421	GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAACACATAAAGTGCTTCA	480		
Db	2197	GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAACACATAAAGTGCTTCA	2256		
QY	481	AGAAGATCTAGAACAAGACAAGTCAAGGTCAATCTCTCACTCACATGGTGGTAGT	540		
Db	2257	AGAAGATCTAGAACAAGACAAGTCAAGGTCAATCTCTCACTCACATGGTGGTAGT	2316		
QY	541	TGATGAATCTAGTGGAGATCACGGCAACTGCTGCTTTTGAAGAACAACCTTAAGGTATGGG	600		
Db	2317	TGATGAATCTAGTGGAGATCACGGCAACTGCTGCTTTTGAAGAACAACCTTAAGGTATGGG	2376		
QY	601	AGATCGATGGGCAACATCTGTAGATGGACAGAAAGCCGCTGGTCTTTTACAAAGACCA	660		
Db	2377	AGATCGATGGGCAACATCTGTAGATGGACAGAAAGCCGCTGGTCTTTTACAAAGACCA	2436		
QY	661	GCCTGACCTAGCTCCTGGACTGACCACCTATTGGAGCCCTCTCTACTCAGACTGTTACTCT	720		
Db	2437	GCCTGACCTAGCTCCTGGACTGACCACCTATTGGAGCCCTCTCTACTCAGACTGTTACTCT	2496		
QY	721	GGTGACACAACTGTGGTTACTAAGGAACCTGCCATCTCCAAACTAGAAATGCCATCTTC	780		
Db	2497	GGTGACACAACTGTGGTTACTAAGGAACCTGCCATCTCCAAACTAGAAATGCCATCTTC	2556		
QY	781	CTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAA	840		
Db	2557	CTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAA	2616		
QY	841	GTTTCTTGCCCTGCTTACAGAGCTGAACAACTGCCAATGTCTCTACAGGATGCTACCCG	900		
Db	2617	GTTTCTTGCCCTGCTTACAGAGCTGAACAACTGCCAATGTCTCTACAGGATGCTACCCG	2676		
QY	901	TAAGGAAAGGCTCCTAGAGACTCCAAGGAGTAAAGAGCTGATGAACAAATGGCAAGA	960		
Db	2677	TAAGGAAAGGCTCCTAGAGACTCCAAGGAGTAAAGAGCTGATGAACAAATGGCAAGA	2736		
QY	961	CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAACAGCCA	1020		
Db	2737	CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAACAGCCA	2796		

QY	1021	AAAAATCCTGAGATCCCTGGAAAGSTTCCGATGATGCAGTCTCTTACAAAGACGTTTGG	1080
Db	2797	AAAAATCCTGAGATCCCTGGAAAGSTTCCGATGATGCAGTCTCTTACAAAGACGTTTGG	2856
QY	1081	TAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTT	1140
Db	2857	TAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTT	2916
QY	1141	GGAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACTTCTGGTGTG	1200
Db	2917	GGAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACTTCTGGTGTG	2976
QY	1201	GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTCCAGC	1260
Db	2977	GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTCCAGC	3036
QY	1261	AGTTCAGAAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACC	1320
Db	3037	AGTTCAGAAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAAACTAAAGAACC	3096
QY	1321	TGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCCTTGGAAGG	1380
Db	3097	TGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCCTTGGAAGG	3156
QY	1381	ACTAGAGAAACTCTACCAGGAGCCCGAGAGCTGCCTCCTGAGGAGAGAGCCCGAGAATGT	1440
Db	3157	ACTAGAGAAACTCTACCAGGAGCCCGAGAGCTGCCTCCTGAGGAGAGAGCCCGAGAATGT	3216
QY	1441	CACCTCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCT	1500
Db	3217	CACCTCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCT	3276
QY	1501	GCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCA	1560
Db	3277	GCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCA	3336
QY	1561	AGAGGCCACGGATGAGCTGGACCTCAAGCTCGGCCAAGCTGAGTGATCAAGGGATCCTG	1620
Db	3337	AGAGGCCACGGATGAGCTGGACCTCAAGCTCGGCCAAGCTGAGTGATCAAGGGATCCTG	3396
QY	1621	GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGC	1680
Db	3397	GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGC	3456
QY	1681	ACTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACTGAGCCACGTCAATGACCTGCTCG	1740
Db	3457	ACTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACTGAGCCACGTCAATGACCTGCTCG	3516
QY	1741	CCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGGAAGACCT	1800
Db	3517	CCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGGAAGACCT	3576
QY	1801	GAACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA	1860
Db	3577	GAACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA	3636
QY	1861	AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTCTGTCCAGGGTCC	1920
Db	3637	AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTCTGTCCAGGGTCC	3696
QY	1921	CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCCACGAGACTCAAAC	1980
Db	3697	CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCCACGAGACTCAAAC	3756
QY	1981	AACCTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAA	2040
Db	3757	AACCTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAA	3816
QY	2041	T 2041	
Db	3817	T 3817	

RESULT 3									
US-09-845-416-34									
; Sequence 34, Application US/09845416									
; Publication No. US20030171312A1									
; GENERAL INFORMATION:									
; APPLICANT: XIAO, XIAO									
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE									
; FILE OF INVENTION: THEREOF									
; FILE REFERENCE: Del1142									
; CURRENT APPLICATION NUMBER: US/09/845,416									
; CURRENT FILING DATE: 2001-04-30									
; PRIOR APPLICATION NUMBER: 60/200,777									
; PRIOR FILING DATE: 2000-04-28									
; NUMBER OF SEQ ID NOS: 36									
; SOFTWARE: Patentin Ver. 2.1									
; SEQ ID NO 34									
; LENGTH: 4990									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
US-09-845-416-34									
Query Match 100.0%; Score 2041; DB 12; Length 4990;									
Best Local Similarity 100.0%; Pred. No. 0;									
Matches 2041; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
QY	1	TGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAAGAGTATTATCGTGGCTTCCTTC	60						
Db	1801	TGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAAGAGTATTATCGTGGCTTCCTTC	1860						
QY	61	TGCTGAGGACACATTGCAAGCAAGGAGAGATTCTAATGATGTGGAAGTGGTGAAGA	120						
Db	1861	TGCTGAGGACACATTGCAAGCAAGGAGAGATTCTAATGATGTGGAAGTGGTGAAGA	1920						
QY	121	CCAGTTTCATCTACTGAGGGTACATGATGGATTTGACAGCCCATCAGGCCGGGTGG	180						
Db	1921	CCAGTTTCATCTACTGAGGGTACATGATGGATTTGACAGCCCATCAGGCCGGGTGG	1980						
QY	181	TAATATCTACAATTGGGAAGTAAAGCTGATTGGAACAGGAAATATATCAGAAGATGAAGA	240						
Db	1981	TAATATCTACAATTGGGAAGTAAAGCTGATTGGAACAGGAAATATATCAGAAGATGAAGA	2040						
QY	241	AACCTGAAGTACAAGACAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC	300						
Db	2041	AACCTGAAGTACAAGACAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC	2100						
QY	301	TAGCATGGAAAAACAAGCAATTATACATAGAGTTTAAATGGATCTCCAGATCAGAACT	360						
Db	2101	TAGCATGGAAAAACAAGCAATTATACATAGAGTTTAAATGGATCTCCAGATCAGAACT	2160						
QY	361	GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAGAAAGAAAGAAATGGAGGAAGA	420						
Db	2161	GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAGAAAGAAAGAAATGGAGGAAGA	2220						
QY	421	GCCTCTGGACCTGATCTTGAAGACCTAAACCGCCAAGTACAAACATAGGTGCTTCA	480						
Db	2221	GCCTCTGGACCTGATCTTGAAGACCTAAACCGCCAAGTACAAACATAGGTGCTTCA	2280						
QY	481	AGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATTCTCTACTCACATGGTGGTAGT	540						
Db	2281	AGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATTCTCTACTCACATGGTGGTAGT	2340						
QY	541	TGATGATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGACAACCTTAAGGTATTGGG	600						
Db	2341	TGATGATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGACAACCTTAAGGTATTGGG	2400						
QY	601	AGATCGATGGCAACATCTGTAGATGGACAGAACCCGCTGGTTCTTTTACAAGACCA	660						
Db	2401	AGATCGATGGCAACATCTGTAGATGGACAGAACCCGCTGGTTCTTTTACAAGACCA	2460						
QY	661	GCCTGACTAGCTCCTGGACTGACCACTATTGGAGCCTCTCCTACTCAGACTGTTACTCT	720						
Db	2461	GCCTGACTAGCTCCTGGACTGACCACTATTGGAGCCTCTCCTACTCAGACTGTTACTCT	2520						

QY	721	GGTGACACAAACCTGTGTGTACTAAGGAAACTGCCATCTCCAAACTAGAAAATGCCATCTTC	780
Db	2521	GGTGACACAAACCTGTGTGTACTAAGGAAACTGCCATCTCCAAACTAGAAAATGCCATCTTC	2580
QY	781	CTTGATGTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAA	840
Db	2581	CTTGATGTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAA	2640
QY	841	GTTTCTTGCCTGGCTTACAGAAGCTGAAACAACCTGCCAATGTCTTACAGGATGCTACCCG	900
Db	2641	GTTTCTTGCCTGGCTTACAGAAGCTGAAACAACCTGCCAATGTCTTACAGGATGCTACCCG	2700
QY	901	TAAGGAAAGSCTCCTAGAGACTCCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGA	960
Db	2701	TAAGGAAAGSCTCCTAGAGACTCCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGA	2760
QY	961	CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACTCTGGATGAAACAGCCA	1020
Db	2761	CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACTCTGGATGAAACAGCCA	2820
QY	1021	AAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCACTCCTGTTACAAAGACGTTTGA	1080
Db	2821	AAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCACTCCTGTTACAAAGACGTTTGA	2880
QY	1081	TAACATGAACCTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTT	1140
Db	2881	TAACATGAACCTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTT	2940
QY	1141	GGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTG	1200
Db	2941	GGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTG	3000
QY	1201	GCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGCGACTTTCGAGC	1260
Db	3001	GCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGCGACTTTCGAGC	3060
QY	1261	AGTTTCAAGAGCAGAACGATGTACATAGSGSCTTCAAGAGGGAATTGAAAACTAAAGAAC	1320
Db	3061	AGTTTCAAGAGCAGAACGATGTACATAGSGSCTTCAAGAGGGAATTGAAAACTAAAGAAC	3120
QY	1321	TGTAATCATGACTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAGG	1380
Db	3121	TGTAATCATGACTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAGG	3180
QY	1381	ACTAGAGAAACTCTTACCAGGAGCCAGAGAGTGCCTCTCTGAGGAGAGAGCCCAAGATGT	1440
Db	3181	ACTAGAGAAACTCTTACCAGGAGCCAGAGAGTGCCTCTCTGAGGAGAGAGCCCAAGATGT	3240
QY	1441	CACCTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTGAACCT	1500
Db	3241	CACCTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTGAACCT	3300
QY	1501	GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTGAAAGACTCCAGGAACCTCA	1560
Db	3301	GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTGAAAGACTCCAGGAACCTCA	3360
QY	1561	AGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTG	1620
Db	3361	AGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTG	3420
QY	1621	GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCTCCAAGATCACCTCGAGAAAAGTCAAGC	1680
Db	3421	GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCTCCAAGATCACCTCGAGAAAAGTCAAGC	3480
QY	1681	ACTTCGAGGAGAAATTGGCCTCTGAAAGAGAACGCTGAGCCACGTCATATGACCTTGCTCG	1740
Db	3481	ACTTCGAGGAGAAATTGGCCTCTGAAAGAGAACGCTGAGCCACGTCATATGACCTTGCTCG	3540
QY	1741	CCAGCTTACCACCTTTGGGCAATTCAGCTCTCACCGTATAAACCCTCAGCACTCTGGAAGACCT	1800
Db	3541	CCAGCTTACCACCTTTGGGCAATTCAGCTCTCACCGTATAAACCCTCAGCACTCTGGAAGACCT	3600

QY 1501 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCA 1560
|||||
Db 2379 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCA 2438
|||||
QY 1561 AGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTG 1620
|||||
Db 2439 AGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTG 2498
|||||
QY 1621 GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGC 1680
|||||
Db 2499 GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGC 2558
|||||
QY 1681 ACTTCGAGGAGAAATGCGCCTCTGAAAGAGAACGTTGAGCACGTTCAATGACCTTGCTCG 1740
|||||
Db 2559 ACTTCGAGGAGAAATGCGCCTCTGAAAGAGAACGTTGAGCACGTTCAATGACCTTGCTCG 2618
|||||
QY 1741 CCAGCTTACCACCTTTGGCATTCAGCTCTCACCGTATAAACCAGCACCTCTGGAAGACCT 1800
|||||
Db 2619 CCAGCTTACCACCTTTGGCATTCAGCTCTCACCGTATAAACCAGCACCTCTGGAAGACCT 2678
|||||
QY 1801 GAACACCAGATGGAAGCTTCTGACAGTGGCGCTCGAGGACCGAGTCAGGCAGCTGCATGA 1860
|||||
Db 2679 GAACACCAGATGGAAGCTTCTGACAGTGGCGCTCGAGGACCGAGTCAGGCAGCTGCATGA 2738
|||||
QY 1861 AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTTCTCCAGGGTCC 1920
|||||
Db 2739 AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTTCTCCAGGGTCC 2798
|||||
QY 1921 CTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACCAGAGACTCAAAAC 1980
|||||
Db 2799 CTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACCAGAGACTCAAAAC 2858
|||||
QY 1981 AACTTGCTGGACCATCCAAATGACAGAGCTCTACAGCTCTTTAGCTGACCTGAATAA 2040
|||||
Db 2859 AACTTGCTGGACCATCCAAATGACAGAGCTCTACAGCTCTTTAGCTGACCTGAATAA 2918
|||||
QY 2041 T 2041
|
Db 2919 T 2919

RESULT 5
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 85.7%; Score 1749; DB 12; Length 4825;
Best Local Similarity 93.1%; Pred. No. 0;
Matches 1900; Conservative 0; Mismatches 0; Indels 141; Gaps 1;
QY 1 TGAAGTAAACCTGGACCGTTATCAACAGCTTAGAAGAACTATTATCGTGGCTTCTTTC 60
|||||
Db 1777 TGAAGTAAACCTGGACCGTTATCAACAGCTTAGAAGAACTATTATCGTGGCTTCTTTC 1836
|||||
QY 61 TGCTGAGGACACATTGCAAGCAAGGAGAGATTCTAATGATGTGGAAGTGGTGAAGA 120
|||||
Db 1837 TGCTGAGGACACATTGCAAGCAAGGAGAGATTCTAATGATGTGGAAGTGGTGAAGA 1896
|||||

QY 121 CCAGTTTCACTACTGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 180
|||||
Db 1897 CCAGTTTCACTACTGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 1956
|||||
QY 181 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGAAAAATTATCAGAAGATGAAGA 240
|||||
Db 1957 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGAAAAATTATCAGAAGATGAAGA 2016
|||||
QY 241 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 300
|||||
Db 2017 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 2076
|||||
QY 301 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAATCAAAAAC 360
|||||
Db 2077 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAATCAAAAAC 2136
|||||
QY 361 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAGAAGAAACAAAGAAAAATGGAGGAAGA 420
|||||
Db 2137 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAGAAGAAACAAAGAAAAATGGAGGAAGA 2196
|||||
QY 421 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAAACATAAGGTGCTTCA 480
|||||
Db 2197 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAAACATAAGGTGCTTCA 2256
|||||
QY 481 AGAAGATCTAGAACAAGAACAAAGTCAAGGTCAATTCCTCACTCAATGGTGGTGTAGT 540
|||||
Db 2257 AGAAGATCTAGAACAAGAACAAAGTCAAGGTCAATTCCTCACTCAATGGTGGTGTAGT 2316
|||||
QY 541 TGATGAATCTAGTGGAGATCAAGCAACTGCTGTTTGAAGAACAACAACTTAAGGTATTTGG 600
|||||
Db 2317 TGATGAATCTAGTGGAGATCAAGCAACTGCTGTTTGAAGAACAACAACTTAAGGTATTTGG 2376
|||||
QY 601 AGATCGATGGSCAAACATCTGTAGATGGACAGAGACCGCTGGTCTTTTACAGACCA 660
|||||
Db 2377 AGATCGATGGSCAAACATCTGTAGATGGACAGAGACCGCTGGTCTTTTACAGAC-- 2434
|||||
QY 661 GCCTGACCTAGCTCCTGGACTGACCACATTTGGAGCCCTCTCTCTACTCAGACTGTTACTCT 720
|||||
Db 2435 ----- 2434
|||||
QY 721 GGTGACACAACTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAAATGCCATCTTC 780
|||||
Db 2435 ----- 2434
|||||
QY 781 CTTGATGTTGGAGGTACCTACTACTCATAGATTAAGTCAACAGTTCCTCCCTGGACCTGGAAAA 840
|||||
Db 2435 -----ACTCATAGATTAAGTCAACAGTTCCTCCCTGGACCTGGAAAA 2475
|||||
QY 841 GTTTCCTGCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCG 900
|||||
Db 2476 GTTTCCTGCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCG 2535
|||||
QY 901 TAAGGAAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAAATGGCAAGA 960
|||||
Db 2536 TAAGGAAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAAATGGCAAGA 2595
|||||
QY 961 CCTCCAAGGTGAAATTTGAGCTCACACAGATGTTTATCACAACCTGGATGAAAACAGCCA 1020
|||||
Db 2596 CCTCCAAGGTGAAATTTGAGCTCACACAGATGTTTATCACAACCTGGATGAAAACAGCCA 2655
|||||
QY 1021 AAAAACTCTGAGATCCCTGGAAGGTTCCGATGATGCTCTGTTTACAAAAGACGTTTGA 1080
|||||
Db 2656 AAAAACTCTGAGATCCCTGGAAGGTTCCGATGATGCTCTGTTTACAAAAGACGTTTGA 2715
|||||
QY 1081 TAACATGAACCTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 1140
|||||
Db 2716 TAACATGAACCTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 2775
|||||
QY 1141 GGAAGCCAGTTCTGACCAAGTGGAGCGTCTGCACCTTTCTCTGCAGAACTTCTGTGTGTG 1200
|||||
Db 2776 GGAAGCCAGTTCTGACCAAGTGGAGCGTCTGCACCTTTCTCTGCAGAACTTCTGTGTGTG 2835
|||||

QY 1201 GCTACAGCTGAAAGATGATGAATTAAAGCCGGCAGGCACCTATTGGAGCGACTTCCAGC 1260
|||||
Db 2836 GCTACAGCTGAAAGATGATGAATTAAAGCCGGCAGGCACCTATTGGAGCGACTTCCAGC 2895
QY 1261 AGTTCAGAAAGCAGAACGATGTACATAGGSCCTTCAAGAGGGAATTGAAACTAAAGAACC 1320
|||||
Db 2896 AGTTCAGAAAGCAGAACGATGTACATAGGSCCTTCAAGAGGGAATTGAAACTAAAGAACC 2955
QY 1321 TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGAAGG 1380
|||||
Db 2956 TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGAAGG 3015
QY 1381 ACTAGAGAAACTCTACCAGGAGCCGAGAGAGCTGCCCTCTGAGGAGAGAGCCAGAAATGT 1440
|||||
Db 3016 ACTAGAGAAACTCTACCAGGAGCCGAGAGAGCTGCCCTCTGAGGAGAGAGCCAGAAATGT 3075
QY 1441 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATFACTGAGTGGGAAAAAATTGAACCT 1500
|||||
Db 3076 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATFACTGAGTGGGAAAAAATTGAACCT 3135
QY 1501 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAATTCA 1560
|||||
Db 3136 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAATTCA 3195
QY 1561 AGAGGCCACGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGATCAAGGGATCCTG 1620
|||||
Db 3196 AGAGGCCACGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGATCAAGGGATCCTG 3255
QY 1621 GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGC 1680
|||||
Db 3256 GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGC 3315
QY 1681 ACTTCGAGAGAAATTGCGCCTCTGAAAGAGAAAGTGAGGCCACGTCAGGTGATCAACCTTGCCTG 1740
|||||
Db 3316 ACTTCGAGAGAAATTGCGCCTCTGAAAGAGAAAGTGAGGCCACGTCAGGTGATCAACCTTGCCTG 3375
QY 1741 CCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTTGGAGACCT 1800
|||||
Db 3376 CCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTTGGAGACCT 3435
QY 1801 GAACACCAGATGGAAGCTTCTGCAGGTGCGCGTCGAGGACCGAGTCAGGCAGCTGCATGA 1860
|||||
Db 3436 GAACACCAGATGGAAGCTTCTGCAGGTGCGCGTCGAGGACCGAGTCAGGCAGCTGCATGA 3495
QY 1861 AGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTCTCCAGGCTC 1920
|||||
Db 3496 AGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTCTCCAGGCTC 3555
QY 1921 CTGGGAGAGACCATCTCGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCAAAAC 1980
|||||
Db 3556 CTGGGAGAGACCATCTCGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCAAAAC 3615
QY 1981 AACTTGCTGGACCATCCCAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAA 2040
|||||
Db 3616 AACTTGCTGGACCATCCCAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAA 3675
QY 2041 T 2041
Db 3676 T 3676

RESULT 6
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 85.7%; Score 1749; DB 12; Length 4848;
Best Local Similarity 93.1%; Pred. No. 0;
Matches 1900; Conservative 0; Mismatches 0; Indels 141; Gaps 1;

QY 1 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAGAAAGTATTATCGTGGCTTCTTTC 60
|||||
Db 1800 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAGAAAGTATTATCGTGGCTTCTTTC 1859
QY 61 TGCTGAGGACACATTGCAAGCACACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 120
|||||
Db 1860 TGCTGAGGACACATTGCAAGCACACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1919
QY 121 CCAGTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGGTGG 180
|||||
Db 1920 CCAGTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGGTGG 1979
QY 181 TAATATTCTACAAATTGGGAAGTAAAGCTGATTGGAACAGGAAAAATTATCAGAAGATGAAGA 240
|||||
Db 1980 TAATATTCTACAAATTGGGAAGTAAAGCTGATTGGAACAGGAAAAATTATCAGAAGATGAAGA 2039
QY 241 AACTGAAGTACAAGAGCAGATGAATCTCTAAATTCGAAGATGGGAATGCCCTCAGGGTAGC 300
|||||
Db 2040 AACTGAAGTACAAGAGCAGATGAATCTCTAAATTCGAAGATGGGAATGCCCTCAGGGTAGC 2099
QY 301 TAGCATGGAAAAACAACCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT 360
|||||
Db 2100 TAGCATGGAAAAACAACCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT 2159
QY 361 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACAGAAAAATGGAGGAAGA 420
|||||
Db 2160 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACAGAAAAATGGAGGAAGA 2219
QY 421 GCCTCTTGGACCTGATCTGGAAGACCTTAAACGCCAAGTACAACAACATAAGGTGCTTCA 480
|||||
Db 2220 GCCTCTTGGACCTGATCTGGAAGACCTTAAACGCCAAGTACAACAACATAAGGTGCTTCA 2279
QY 481 AGAAGATCTAGAACAAAGAACAAAGTCAGGGTCAATTTCTCCTCACATCATGGTGGTAGT 540
|||||
Db 2280 AGAAGATCTAGAACAAAGAACAAAGTCAGGGTCAATTTCTCCTCACATCATGGTGGTAGT 2339
QY 541 TGATGAATCTAGTGGAGATCACGCACACTGCTGCTTTTGGAAAGAACAACTTAAGGTATTGG 600
|||||
Db 2340 TGATGAATCTAGTGGAGATCACGCACACTGCTGCTTTTGGAAAGAACAACTTAAGGTATTGG 2399
QY 601 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGACCA 660
|||||
Db 2400 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGAC-- 2457
QY 661 GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCTCTCCTACTCAGACTGTACTCT 720
Db 2458 ----- 2457
QY 721 GGTGACACAACCTGTGTGTTACTAAGGAAAACTGCCAATCTCAAACATAGAAAATGCCATCTTC 780
Db 2458 ----- 2457
QY 781 CTTGATGTTGGAGGTACTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAA 840
|||||
Db 2458 -----ACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAA 2498
QY 841 GTTCTTGCCTGGCTTACAGAAAGCTGAAAAACAACCTGCCAATGTCTCTACAGGATGCTACCCG 900
|||||
Db 2499 GTTCTTGCCTGGCTTACAGAAAGCTGAAAAACAACCTGCCAATGTCTCTACAGGATGCTACCCG 2558

QY 601 AGATCGATGGGCAACATCTGTAGATGGACAGAAAGCCGCTGGGTCTTTTACAGACCA 660
Db 2612 AGATCGATGGGCAACATCTGTAGATGGACAGAAAGCCGCTGGGTCTTTTACAGAC-- 2669
QY 661 GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCTCTCCTACTCAGACTGTTACTCT 720
Db 2670 ----- 2669
QY 721 GGTGACACAACCTGTGGTTACTAAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 780
Db 2670 ----- 2669
QY 781 CTTGATGTTGGAGGTACCTACTACTAGATTACTGCAACAGTTCGCCCTGGACCTGGGAAA 840
Db 2670 -----ACTCATAGATTACTGCAACAGTTCGCCCTGGACCTGGGAAA 2710
QY 841 GTTCTTGCTGGCTTACAGAAAGCTGAAACAACCTGCCAATGTCTTACAGGATGCTACCCG 900
Db 2711 GTTCTTGCTGGCTTACAGAAAGCTGAAACAACCTGCCAATGTCTTACAGGATGCTACCCG 2770
QY 901 TAAGGAAAGCTCCTAGAGACTCCAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA 960
Db 2771 TAAGGAAAGCTCCTAGAGACTCCAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA 2830
QY 961 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAAACAGCCA 1020
Db 2831 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAAACAGCCA 2890
QY 1021 AAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTCTCTGTACAAAGACGTTTGA 1080
Db 2891 AAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTCTCTGTACAAAGACGTTTGA 2950
QY 1081 TAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 1140
Db 2951 TAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 3010
QY 1141 GGAAGCCAGTCTGACCACTGGAAGCGTCTGCACCTTCTCTGCAGAAACTTCTGGTGTG 1200
Db 3011 GGAAGCCAGTCTGACCACTGGAAGCGTCTGCACCTTCTCTGCAGAAACTTCTGGTGTG 3070
QY 1201 GCTACAGCTGAAAGATGATGAATTAAAGCGGCAGGCACCTATTGGAGCGACTTCCAGC 1260
Db 3071 GCTACAGCTGAAAGATGATGAATTAAAGCGGCAGGCACCTATTGGAGCGACTTCCAGC 3130
QY 1261 AGTTCAGAGCAGAAACGATGTACATAGGSCCTTCAAGAGGGAATTGAAAACTAAAGAAC 1320
Db 3131 AGTTCAGAGCAGAAACGATGTACATAGGSCCTTCAAGAGGGAATTGAAAACTAAAGAAC 3190
QY 1321 TGTAATCATGAGTACTCTTCAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAG 1380
Db 3191 TGTAATCATGAGTACTCTTCAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAG 3250
QY 1381 ACTAGAGAACTCTACCAGAGCCCAAGAGCTGCCTCTGAGGAGAGAGCCCAAGATGT 1440
Db 3251 ACTAGAGAACTCTACCAGAGCCCAAGAGCTGCCTCTGAGGAGAGAGCCCAAGATGT 3310
QY 1441 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATFACTGAGTGGGAAAAAATTGAACCT 1500
Db 3311 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATFACTGAGTGGGAAAAAATTGAACCT 3370
QY 1501 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCA 1560
Db 3371 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCA 3430
QY 1561 AGAGGCCACGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGATCAAGGGATCCTG 1620
Db 3431 AGAGGCCACGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGATCAAGGGATCCTG 3490
QY 1621 GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAATCACCTCGAGAAAGTCAAGGC 1680
Db 3491 GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAATCACCTCGAGAAAGTCAAGGC 3550
QY 1681 ACTTCGAGGAGAAATTGGGCTCTTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCG 1740

Db 3551 ACTTCAGGAGAAATTGGCCTCTGAAAGAGAAAGTGGCCACGTCAATGACCTTGCTCG 3610
QY 1741 CCAGCTTACCACCTTTGGGCATTTCAGCTCTCACCGTATAAACCTCAGCACTCTGGAAGACCT 1800
Db 3611 CCAGCTTACCACCTTTGGGCATTTCAGCTCTCACCGTATAAACCTCAGCACTCTGGAAGACCT 3670
QY 1801 GAACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 1860
Db 3671 GAACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 3730
QY 1861 AGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCTGTCCAGGGTCC 1920
Db 3731 AGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCTGTCCAGGGTCC 3790
QY 1921 CTGGGAGAGAGCCATCTCTGCCAAACAAAGTGCCTACTATATCAACACAGACTCAAAAC 1980
Db 3791 CTGGGAGAGAGCCATCTCTGCCAAACAAAGTGCCTACTATATCAACACAGACTCAAAAC 3850
QY 1981 AACTTGCTGGGACCATCCCAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATAA 2040
Db 3851 AACTTGCTGGGACCATCCCAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATAA 3910
QY 2041 T 2041
Db 3911 T 3911

RESULT 8
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 83.4%; Score 1702.8; DB 12; Length 4182;
Best Local Similarity 88.5%; Pred. No. 0;
Matches 1969; Conservative 0; Mismatches 72; Indels 183; Gaps 4;

QY 1 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAAAGTATATCGTGGCTTCTTC 60
Db 1020 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAAAGTATATCGTGGCTTCTTC 1079
QY 61 TGCTGAGGACACATTGCAAGCACAGGAGAGATTCTAATGATGTGGAAAGTGGTGAAGA 120
Db 1080 TGCTGAGGACACATTGCAAGCACAGGAGAGATTCTAATGATGTGGAAAGTGGTGAAGA 1139
QY 121 CCAGTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGGGTTGG 180
Db 1140 CCAGTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGGGTTGG 1199
QY 181 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGAAATATATCAGAAGATGAAGA 240
Db 1200 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGAAATATATCAGAAGATGAAGA 1259
QY 241 AACTGAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 300
Db 1260 AACTGAGTACAAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 1319

QY 301 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGATCAGAAACT 360
Db 1320 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGATCAGAAACT 1379
QY 361 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAAAGAAAGAAATGGAGGAAGA 420
Db 1380 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAAAGAAAGAAATGGAGGAAGA 1439
QY 421 GCCTCTTGGACCTGTCTTTGAAGACCTTAAACCCCAAGTACAAACATAAAGGTGCTTCA 480
Db 1440 GCCTCTTGGACCTGTCTTTGAAGACCTTAAACCGCCAAGTACAAACATAAAGGTGCTTCA 1499
QY 481 AGAAGATCTAGAAACAAGACAAGTCAGGGTCAATTTCTCTCACTCACATGGTGGTAGT 540
Db 1500 AGAAGATCTAGAAACAAGACAAGTCAGGGTCAATTTCTCACTCACATGGTGGTAGT 1559
QY 541 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAAGGTATTGGG 600
Db 1560 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAAGGTATTGGG 1619
QY 601 AGATCGATGGGCAACACATCTGTAGATGGACAGAACCGCTGGTCTCTTTTACAAGACCA 660
Db 1620 AGATCGATGGGCAACACATCTGTAGATGGACAGAACCGCTGGTCTCTTTTACAAGACAT 1679
QY 661 GCCTGAC-----CTAGCTCTGGACTGACCACTATTGGAGCCTCTCCTACTCA 708
Db 1680 CCTTCTCAATGGCRAAGCTTTACTGAAGAACAGTGCCTTTTAGTGCAATGCTTTTCA 1739
QY 709 GACTGTTACTCTGGTGACACA-----ACCTGTGGTTACTAAAGGAAACTGCCATCTC 759
Db 1740 AAAAGAAGATGCAGTGAACAAGATTCAACACAACCTGGCTTTAAAGATCAAAATGAATGTT 1799
QY 760 ----- 759
Db 1800 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 1859
QY 760 -----CAAACTAGAAAATGCCATCTTCTTGATGTTGGAG----- 793
Db 1860 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTCAACACTGAAGAATAAGTCAGTGAC 1919
QY 794 ----- 793
Db 1920 CCAGAAAGCGGAAGCATGGCTGGATAAATTTGCCCGTGTGGGATAATTTAGTCCAAA 1979
QY 794 -----GTACCTACTCATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGA 837
Db 1980 ACTTGAARAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGA 2039
QY 838 AAAGTTTCTGCTGCTTACAGAAGCTGAAACAACTGCCAATGCTCCTACAGGATGCTAC 897
Db 2040 AAAGTTTCTGCTGCTTACAGAAGCTGAAACAACTGCCAATGCTCCTACAGGATGCTAC 2099
QY 898 CCGTAAGGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCA 957
Db 2100 CCGTAAGGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCA 2159
QY 958 AGACCTCCAAGGTGAATTTGAAGCTCACACAGATTTTATCACAACTGGATGAAACACAG 1017
Db 2160 AGACCTCCAAGGTGAATTTGAAGCTCACACAGATTTTATCACAACTGGATGAAACACAG 2219
QY 1018 CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGAGTCCCTGTTACAAAGACGTTT 1077
Db 2220 CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGAGTCCCTGTTACAAAGACGTTT 2279
QY 1078 GGATAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCA 1137
Db 2280 GGATAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCA 2339
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QY 1198 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCC 1257

Db 2400 GTGGCTACAGCTGAAAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTCC 2459
QY 1258 AGCAGTTTCAGAAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACTAAAGA 1317
Db 2460 AGCAGTTTCAGAAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACTAAAGA 2519
QY 1318 AACTGTAATCATGAGTACTCTTGAGACTGTAACGAATATTCTGACAGAGCAGCCCTTGGGA 1377
Db 2520 AACTGTAATCATGAGTACTCTTGAGACTGTAACGAATATTCTGACAGAGCAGCCCTTGGGA 2579
QY 1378 AGGACTAGAGAAACTCTACCAGGAGCCCGAGAGAGCTGCCCTCTGAGGAGAGAGCCCGAGAA 1437
Db 2580 AGGACTAGAGAAACTCTACCAGGAGCCCGAGAGAGCTGCCCTCTGAGGAGAGAGCCCGAGAA 2639
QY 1438 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCATATACTAGTGGGAAAAATGAA 1497
Db 2640 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCATATACTAGTGGGAAAAATGAA 2699
QY 1498 CTTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAAT 1557
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QY 1558 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTCGCCAAAGCTGAGTGATCAAGGATC 1617
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QY 1618 CTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 1677
Db 2820 CTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 2879
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Db 2880 GGCACCTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACGTCGAGCCACGTCATGACCTTGC 2939
QY 1738 TCGCCAGCTTACCACCTTTGGGGATTTCAGCTTCAACCGTATACCTCAGCACTCTGGGAGA 1797
Db 2940 TCGCCAGCTTACCACCTTTGGGGATTTCAGCTTCAACCGTATACCTCAGCACTCTGGGAGA 2999
QY 1798 CCTGAACACCAAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCA 1857
Db 3000 CCTGAACACCAAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCA 3059
QY 1858 TGAAGCCCCACAGGACTTTGTCCAGCATCTCAGCACTTCTTCCAGTCTGTCCAGGG 1917
Db 3060 TGAAGCCCCACAGGACTTTGTCCAGCATCTCAGCACTTCTTCCAGTCTGTCCAGGG 3119
QY 1918 TCCTGGGAGAGAGCCCATCTCCGCAAAACAAGTCCCTACTATATCAACCACGAGACTCA 1977
Db 3120 TCCTGGGAGAGAGCCCATCTCCGCAAAACAAGTCCCTACTATATCAACCACGAGACTCA 3179
QY 1978 AACCACTTGTGGACCCATCTCCGCAAAACAAGTCCCTACTATATCAACCACGAGACTCA 2037
Db 3180 AACCACTTGTGGACCCATCTCCGCAAAACAAGTCCCTACTATATCAACCACGAGACTCA 3239
QY 2038 TAAT 2041
Db 3240 TAAT 3243

RESULT 9
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: Del1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 83.4%; Score 1702.8; DB 12; Length 5149;
Best Local Similarity 88.5%; Pred. No. 0;
Matches 1969; Conservative 0; Mismatches 72; Indels 183; Gaps 4;

QY 1 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATPATTATCGGGCTTCTTTC 60
Db 1777 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATPATTATCGGGCTTCTTTC 1836

QY 61 TGCTGAGGACACATTTGCAAGCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 120
Db 1837 TGCTGAGGACACATTTGCAAGCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1896

QY 121 CCAGTTTCATCTCATGAGGGGACATGATGGATTTGACAGCCCATCAGGCCCGGTTGG 180
Db 1897 CCAGTTTCATCTCATGAGGGGACATGATGGATTTGACAGCCCATCAGGCCCGGTTGG 1956

QY 181 TAAATCTTACAAATTGGGAAGTAACTCTCCTAAATTCAGATGGGAATGCCATCAGGAATGA 240
Db 1957 TAAATCTTACAAATTGGGAAGTAACTCTCCTAAATTCAGATGGGAATGCCATCAGGAATGA 2016

QY 241 AACTGAAGTACAAGACAGATGAATCTCCTAAATTCAGATGGGAATGCCATCAGGAATGA 300
Db 2017 AACTGAAGTACAAGACAGATGAATCTCCTAAATTCAGATGGGAATGCCATCAGGAATGA 2076

QY 301 TAGCATGGAAACAAAGCAATTTACATAGATTTTAAATGGATCTCCAGAAATCAGAAAT 360
Db 2077 TAGCATGGAAACAAAGCAATTTACATAGATTTTAAATGGATCTCCAGAAATCAGAAAT 2136

QY 361 GAAAGAGTTGAATGACTGGCTACAAACAAAGCAAGAAAGCAAGAAATGGAGGAAGA 420
Db 2137 GAAAGAGTTGAATGACTGGCTACAAACAAAGCAAGAAAGCAAGAAATGGAGGAAGA 2196

QY 421 GCCTCTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACAAATAGGTGCTTCA 480
Db 2197 GCCTCTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACAAATAGGTGCTTCA 2256

QY 481 AGAGATCTAGAACAAAGAACAAAGTCAAGGTCAATTTCTCCTACTCACATGGTGGTAGT 540
Db 2257 AGAGATCTAGAACAAAGAACAAAGTCAAGGTCAATTTCTCCTACTCACATGGTGGTAGT 2316

QY 541 TGATGAATCTAGTGGAGATCAGCGAACTGCTGCTTTTGGAAACAACTTAAAGTATTGGG 600
Db 2317 TGATGAATCTAGTGGAGATCAGCGAACTGCTGCTTTTGGAAACAACTTAAAGTATTGGG 2376

QY 601 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAAGACCA 660
Db 2377 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAAGACAT 2436

QY 661 GCCTGAC-----CTAGCTCCTGGACTGACCACATATTGGAGCCCTCTCCTACTCA 708
Db 2437 CCTTCTCAATGGCAACGTTTACTGAAGAACAGTGCCTTTTAAAGTATGATGGCTTTTCA 2496

QY 709 GACTGTTACTCTGTFGACACA-----ACCTGTGGTTTACTAAGGAAATGCCATCTC 759
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QY 760 ----- 759
Db 2557 ATCAAGTCTTCAAAACTGGCCGTTTAAAGCGGATCTAGAAAAGAAAGCAATCCAT 2616

QY 760 -----CAACTAGAAATGCCATCTTCTCTGATGTTGGAG----- 793
Db 2617 GGGCAAACTGTATTCATCAACAAGATCTTCTTCAACACTGAAGAATAAGTCAGTGAC 2676

QY 794 ----- 793

Db 2677 CCAGAAGACGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGATATTTAGTCCAAA 2736
QY 794 -----GTACCTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGA 837
Db 2737 ACTTGAAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGA 2796
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QY 898 CCGTAAGGAAGGCTCCTAGAAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAATGGCA 957
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QY 958 AGACCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACACAG 1017
Db 2917 AGACCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACACAG 2976
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Db 2977 CCAAAAAATCCTGAGATCCCTGGAAGTCCGATGATGCAGTCCCTGTACAAAGACGTTT 3036
QY 1078 GGATAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCA 1137
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QY 1198 GTGGCTACAGTGAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTCC 1257
Db 3157 GTGGCTACAGTGAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTCC 3216
QY 1258 ACCAGTTTCAAGACAGAACGATGTACATAGGGCCCTTCAAGAGGGAATGAAACCTAAAGA 1317
Db 3217 ACCAGTTTCAAGACAGAACGATGTACATAGGGCCCTTCAAGAGGGAATGAAACCTAAAGA 3276
QY 1318 ACCTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCCTTTGGA 1377
Db 3277 ACCTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGA 3336
QY 1378 AGGACTAGAGAAACTCTACAGAGGAGCCAGAGAGCTGCTCCTGAGAGAGAGCCAGAA 1437
Db 3337 AGGACTAGAGAAACTCTACAGAGGAGCCAGAGAGCTGCTCCTGAGAGAGAGCCAGAA 3396
QY 1438 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATGAA 1497
Db 3397 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATGAA 3456
QY 1498 CCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAAC 1557
Db 3457 CCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAAC 3516
QY 1558 TCAAGAGGCCACGGATGAGTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATC 1617
Db 3517 TCAAGAGGCCACGGATGAGTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATC 3576
QY 1618 CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCAAGATCCTCGAGAAAGTCAA 1677
Db 3577 CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCAAGATCCTCGAGAAAGTCAA 3636
QY 1678 GGCACCTCGAGGAGAAATTCGGCCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTGC 1737
Db 3637 GGCACCTCGAGGAGAAATTCGGCCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTGC 3696
QY 1738 TCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCTTATACCTCAGCAGCTCTGGAAGA 1797
Db 3697 TCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCTTATACCTCAGCAGCTCTGGAAGA 3756
QY 1798 CCTGAACACAGATGGAAGCTTCTGCAGTGGCCGTGCGAGGACCGAGTCAGGCAGCTGCA 1857

Db 3757 CCTGAACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCA 3816

QY 1858 TGAAGCCACAGGACTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCGTCTCCAGGG 1917

Db 3817 TGAAGCCACAGGACTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCGTCTCCAGGG 3876

QY 1918 TCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCA 1977

Db 3877 TCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCA 3936

QY 1978 AACAACTTGTGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAA 2037

Db 3937 AACAACTTGTGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAA 3996

QY 2038 TAAT 2041

Db 3997 TAAT 4000

RESULT 10

US-09-845-416-1

; Sequence 1, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn ver. 2.1

; SEQ ID NO 1

; LENGTH: 11058

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-1

Query Match 60.9%; Score 1242.6; DB 12; Length 11058;

Best local Similarity 99.7%; Pred. No. 0;

Matches 1245; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 793 GGTACCTACTCATAGATTACTGCAACAGTCCCTCCCTGACCTGGAAAAGTTTCTTGCCTG 852

Db 8052 GGAAGAACTCATAGATTACTGCAACAGTCCCTCCCTGACCTGGAAAAGTTTCTTGCCTG 8111

QY 853 GCTTACAGAGCTGAACAACTGCCAATGTCTACAGATGTACTACCGCTAAGGAAGGCT 912

Db 8112 GCTTACAGAGCTGAACAACTGCCAATGTCTACAGATGTACTACCGCTAAGGAAGGCT 8171

QY 913 CCTAGAAGACTCAAGGGAGTAAAGAGCTGATGAACATGGCAAGACCTCCAGGTGA 972

Db 8172 CCTAGAAGACTCAAGGGAGTAAAGAGCTGATGAACATGGCAAGACCTCCAGGTGA 8231

QY 973 AATTGAAGCTCACACAGATGTTTATCACACCTGGATGAAACACAGCCAAAATCCTGAG 1032

Db 8232 AATTGAAGCTCACACAGATGTTTATCACACCTGGATGAAACACAGCCAAAATCCTGAG 8291

QY 1033 ATCCCTGGAAGTCCGATGATGCGAGTCCCTTACAAAGACGTTTGGATAACATGAACCT 1092

Db 8292 ATCCCTGGAAGTCCGATGATGCGAGTCCCTTACAAAGACGTTTGGATAACATGAACCT 8351

QY 1093 CAAGTGGAGTGAACCTTCGAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTC 1152

Db 8352 CAAGTGGAGTGAACCTTCGAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTC 8411

QY 1153 TGACCAAGTGAAGGCTCTGCACCTTTCTCTGAGGAACCTTCTGGTGTGCTACAGCTGAA 1212

Db 8412 TGACCAAGTGAAGGCTCTGCACCTTTCTCTGAGGAACCTTCTGGTGTGCTACAGCTGAA 8471

QY 1213 AGATGATGAATTAAAGCCGGCAGGACCTATTGGAGGGGACTTTCCAGCAGTTCAGAAAGCA 1272

Db 8472 AGATGATGAATTAAAGCCGGCAGGACCTATTGGAGGGACTTTCCAGCAGTTCAGAAAGCA 8531

QY 1273 GAACGATGTACATAGGGCCCTTCAAGAGAGGAATTGAARACTAAAGAACCTGTAAATCATGAG 1332

Db 8532 GAACGATGTACATAGGGCCCTTCAAGAGAGGAATTGAARACTAAAGAACCTGTAAATCATGAG 8591

QY 1333 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACT 1392

Db 8592 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACT 8651

QY 1393 CTACCAAGGAGCCAGAGAGCTCCCTCCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCT 1452

Db 8652 CTACCAAGGAGCCAGAGAGCTCCCTCCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCT 8711

QY 1453 ACGAAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATGAACCTGCACCTCCGCTGA 1512

Db 8712 ACGAAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATGAACCTGCACCTCCGCTGA 8771

QY 1513 CTGGCAGAGAAAAATAGATGAGAGCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGA 1572

Db 8772 CTGGCAGAGAAAAATAGATGAGAGCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGA 8831

QY 1573 TGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 1632

Db 8832 TGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 8891

QY 1633 CGATCTCCTCATTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGA 1692

Db 8892 CGATCTCCTCATTGACTCTCTCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGA 8951

QY 1693 AATTGCGCCTCTGAAAAGAGAGTGAAGCCAGCTCAATGACCTTGTCTGCCAGCTTACCAC 1752

Db 8952 AATTGCGCCTCTGAAAAGAGAGTGAAGCCAGCTCAATGACCTTGTCTGCCAGCTTACCAC 9011

QY 1753 TTTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTTGAACACACAGATG 1812

Db 9012 TTTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTTGAACACACAGATG 9071

QY 1813 GAAGCTTCTGAGGTGGCGTGGAGGACCGAGTCCAGGAGCTGCATGAGAGCCACACAGGA 1872

Db 9072 GAAGCTTCTGAGGTGGCGTGGAGGACCGAGTCCAGGAGCTGCATGAGAGCCACACAGGA 9131

QY 1873 CTTTGTCCAGCACTCAGCACTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGC 1932

Db 9132 CTTTGTCCAGCACTCAGCACTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGC 9191

QY 1933 CATCTGCCAAACAAAGTGCCCTACTATATCAACCCAGAGACTCAACAACTTGTCTGGGA 1992

Db 9192 CATCTGCCAAACAAAGTGCCCTACTATATCAACCCAGAGACTCAACAACTTGTCTGGGA 9251

QY 1993 CCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGAGCTGAATAAT 2041

Db 9252 CCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGAGCTGAATAAT 9300

RESULT 11

US-09-782-378A-22

; Sequence 22, Application US/09782378A

; Patent No. US20020102731A1

; GENERAL INFORMATION:

; APPLICANT: Hearing, Patrick

; APPLICANT: Bahou, Wadie

; APPLICANT: Sandalon, Ziv

; APPLICANT: Gnatenko, Dmitri

; TITLE OF INVENTION: Adenoviral Vectors

; FILE REFERENCE: STONYB-04970

; CURRENT APPLICATION NUMBER: US/09/782,378A

; CURRENT FILING DATE: 2001-02-12

; PRIOR APPLICATION NUMBER: 60/237,747

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: PatentIn version 3.0


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; SEQ ID NO 22
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-22

Query Match      60.9%; Score 1242.6; DB 10; Length 13957;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1245; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 793 GGTACCTACTCATAGATTACTGCAACAGTTTCCCCCTGGACCTGGAAAGTTTCTTGCCCTG 852
Db 8260 GGAAGAACTCATAGATTACTGCAACAGTTTCCCCCTGGACCTGGAAAGTTTCTTGCCCTG 8319
QY 853 GCATTACAGAAGCTGAACAACACTGCCAATGTCTCTACAGGATGCTACCCCTAAGGAAGGCT 912
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QY 913 CCTAGAAGACTCCAAGGGAGTAAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGA 972
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QY 973 AATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACACCCCAAAATCCTGAG 1032
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Db 8500 ATCCCTGGAAGTCCGATGATGCGAGTCTCTCAACATTAGTCCCAATTTGGAAGCCAGTTC 8559
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Db 8560 CAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCAATTTGGAAGCCAGTTC 8619
QY 1153 TGACCAAGTGAAGCGCTCTGCACCTTCTCTGCAGGAAGTCTCTGGTGGTGTACAGCTGAA 1212
Db 8620 TGACCAAGTGAAGCGCTCTGCACCTTCTCTGCAGGAAGTCTCTGGTGGTGTACAGCTGAA 8679
QY 1213 AGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGGACTTCCAGCAGTTCAGAAAGCA 1272
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QY 1273 GAACGATGTACATAGGGCCCTTCAAGAGGGAATGAAAACATAAGAACCTGTAAATCATGAG 1332
Db 8740 GAACGATGTACATAGGGCCCTTCAAGAGGGAATGAAAACATAAGAACCTGTAAATCATGAG 8799
QY 1333 TACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCGCTTGGAAAGGACTAGAGAAACT 1392
Db 8800 TACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCGCTTGGAAAGGACTAGAGAAACT 8859
QY 1393 CTACAGGAGCCCGAGAGAGCTGGCTCTCTGAGAGAGAGAGCCAGAAATGTCACTCGGCTTCT 1452
Db 8860 CTACAGGAGCCCGAGAGAGCTGGCTCTCTGAGAGAGAGAGCCAGAAATGTCACTCGGCTTCT 8919
QY 1453 ACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGGAATAATGAACTGCACTCCGCTGA 1512
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QY 1513 CTGGCAGAGAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACCTCAAGAGGCCACGGA 1572
Db 8980 CTGGCAGAGAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACCTCAAGAGGCCACGGA 9039
QY 1573 TGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGG 1632
Db 9040 TGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGG 9099
QY 1633 CGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGA 1692
Db 9100 CGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGA 9159
QY 1693 AATTGGCCCTCTGAAAGAGAACCTGAGCCACGTCATGACCTGCTCGCCAGCTTACCAC 1752
Db 9160 AATTGGCCCTCTGAAAGAGAACCTGAGCCACGTCATGACCTGCTCGCCAGCTTACCAC 9219
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QY 1753 TTTGGGCATTTCAGCTCTCACCGTATFAAACCTCAGCACTCTGGAAAGACCTGAACACACAGATG 1812
Db 9220 TTTGGGCATTTCAGCTCTCACCGTATFAAACCTCAGCACTCTGGAAAGACCTGAACACACAGATG 9279
QY 1813 GAAGCTTCTGCAGGTGGCCGTCGAGGACCCGAGTCAGGCGAGCTGCATGAAGCCACACAGGA 1872
Db 9280 GAAGCTTCTGCAGGTGGCCGTCGAGGACCCGAGTCAGGCGAGCTGCATGAAGCCACACAGGA 9339
QY 1873 CTTTGTCCAGCATCTCAGCACATTTCTTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGC 1932
Db 9340 CTTTGTCCAGCATCTCAGCACATTTCTTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGC 9399
QY 1933 CATCTCGCCAAACAAAGTGCCTACTATATCAACACGAGACTCAAAACAACCTTCTGTTGGA 1992
Db 9400 CATCTCGCCAAACAAAGTGCCTACTATATCAACACGAGACTCAAAACAACCTTCTGTTGGA 9459
QY 1993 CCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAAT 2041
Db 9460 CCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAAT 9508
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RESULT 12
US-09-880-107-2284
; Sequence 2284, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2284
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M18533
US-09-880-107-2284
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Query Match      60.9%; Score 1242.6; DB 10; Length 13957;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1245; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 793 GGTACCTACTCATAGATTACTGCAACAGTTTCCCCCTGGACCTGGAAAGTTTCTTGCCCTG 852
Db 8260 GGAAGAACTCATAGATTACTGCAACAGTTTCCCCCTGGACCTGGAAAGTTTCTTGCCCTG 8319
QY 853 GCTTACAGAGCTGAACAACACTGCCAATGTCTCTACAGGATGCTACCCGTAAGGAAAGGCT 912
Db 8320 GCTTACAGAGCTGAACAACACTGCCAATGTCTCTACAGGATGCTACCCGTAAGGAAAGGCT 8379
QY 913 CCTAGAAGACTCCAAGGAGTAAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGA 972
Db 8380 CCTAGAAGACTCCAAGGAGTAAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGA 8439
QY 973 AATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACACCCCAAAATCCTGAG 1032
Db 8440 AATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACACCCCAAAATCCTGAG 8499
QY 1033 ATCCCTGGAAGGTTCCGATGATGCGAGTCTCTTTACAAAGACGTTTGGATAACATGAACCT 1092
Db 8500 ATCCCTGGAAGGTTCCGATGATGCGAGTCTCTTTACAAAGACGTTTGGATAACATGAACCT 8559
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QY 1093 CAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTTGGAGCCAGTTC 1152
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Db 8560 CAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTTGGAGCCAGTTC 8619

QY 1153 TGACCACTGGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAA 1212
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Db 8620 TGACCACTGGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAA 8679

QY 1213 AGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGCGGACCTTTCCAGCAGCTTCAGAAGCA 1272
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Db 8680 AGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGCGGACCTTTCCAGCAGCTTCAGAAGCA 8739

QY 1273 GAACGATGTACATAGGGCTTCAAGAGGGAATTTGAAAACTAAAGAAACCTGTATCATGAG 1332
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Db 8740 GAACGATGTACATAGGGCTTCAAGAGGGAATTTGAAAACTAAAGAAACCTGTATCATGAG 8799

QY 1333 TACTCTTGAGACTGTACGAATAATTTCTGACAGAGCAGCCCTTTTGAAGGACTAGAGAACT 1392
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QY 1393 CTACCAGAGCCCGCAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCT 1452
Db 8860 CTACCAGAGCCCGCAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCT 8919

QY 1453 ACGAAAGCAGGCTGAGGAGGTCAATCTGAGTGGGAAAAATTTGAACCTGCACCTCGGCTGA 1512
Db 8920 ACGAAAGCAGGCTGAGGAGGTCAATCTGAGTGGGAAAAATTTGAACCTGCACCTCGGCTGA 8979

QY 1513 CTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGGA 1572
Db 8980 CTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGGA 9039

QY 1573 TGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 1632
Db 9040 TGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 9099

QY 1633 CGATCTCCATCTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCAGGAGGA 1692
Db 9100 CGATCTCCATCTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCAGGAGGA 9159

QY 1693 AATTGGCCCTCTGAAAGAGAACGCTGAGCCACGCTCAATGACCTTGCTGCCAGCTTACCAC 1752
Db 9160 AATTGGCCCTCTGAAAGAGAACGCTGAGCCACGCTCAATGACCTTGCTGCCAGCTTACCAC 9219

QY 1753 TTTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATG 1812
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QY 1813 GAAGCTTCTGCAGGTGGCGCTCGAGGACCGAGTCAAGCAGCTGCAATGAAGCCACAGGGA 1872
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QY 1873 CTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTCCAGGCTCCCTGGGAGAGAGC 1932
Db 9340 CTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTGTCCAGGCTCCCTGGGAGAGAGC 9399

QY 1933 CATCTCGCCAAACAAAGTGCCTACTATATCAACCCAGAGACTCAAAACACTTGTCTGGGA 1992
Db 9400 CATCTCGCCAAACAAAGTGCCTACTATATCAACCCAGAGACTCAAAACACTTGTCTGGGA 9459

QY 1993 CCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAAT 2041
Db 9460 CCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAAT 9508

RESULT 13
US-09-845-416-4
; Sequence 4, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 2169
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-4

Query Match 60.9%; Score 1242; DB 12; Length 2169;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 800 ACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTTCCTGGCTTACA 859
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Db 2 ACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTTCCTGGCTTACA 61

QY 860 GAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAA 919
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Db 62 GAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAA 121

QY 920 GACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAAATTGAA 979
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Db 122 GACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAAATTGAA 181

QY 980 GCTCACACAGATGTTTATCAAAACCTGGATGAAACAGCCAAAAATCCTGAGATCCCTG 1039
Db 182 GCTCACACAGATGTTTATCAAAACCTGGATGAAACAGCCAAAAATCCTGAGATCCCTG 241

QY 1040 GAAGGTTCCGATGATGAGTCTCTTACAAAGACGTTTGGATAAACATGAACCTTCAAGTGG 1099
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Db 242 GAAGGTTCCGATGATGAGTCTCTTACAAAGACGTTTGGATAAACATGAACCTTCAAGTGG 301

QY 1100 AGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCAG 1159
Db 302 AGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCAG 361

QY 1160 TGGAGCGCTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGAT 1219
Db 362 TGGAGCGCTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGAT 421

QY 1220 GAATTAAGCCGCGCAGGCACCTATTGGAGCGGACTTTCAGCAGATTTCAGAAAGCAGACGAT 1279
Db 422 GAATTAAGCCGCGCAGGCACCTATTGGAGCGGACTTTCAGCAGATTTCAGAAAGCAGACGAT 481

QY 1280 GTACATAGGGCCCTCAAGAGGGAATTGAAACTAAAGAACCTGTAATCATGAGTACTCTT 1339
Db 482 GTACATAGGGCCCTCAAGAGGGAATTGAAACTAAAGAACCTGTAATCATGAGTACTCTT 541

QY 1340 GAGACTGTACGAATATTCTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACTCTACCCAG 1399
Db 542 GAGACTGTACGAATATTCTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACTCTACCCAG 601

QY 1400 GAGCCACAGAGAGCTGCCCTCCTGAGGAGAGAGCCCAAGTGTCTACTCGGCTTCTACGAAAG 1459
Db 602 GAGCCACAGAGAGCTGCCCTCCTGAGGAGAGAGCCCAAGTGTCTACTCGGCTTCTACGAAAG 661

QY 1460 CAGGCTGAGGAGTCAATCTGAGTGGGAAAAATTTGAACCTGCACCTCGCTGAGTGGCAG 1519
Db 662 CAGGCTGAGGAGTCAATCTGAGTGGGAAAAATTTGAACCTGCACCTCGCTGAGTGGCAG 721

QY 1520 AGAAAAATAGATGAGACCCCTTTGAAAGACTCCAGGAACCTTCAAGAGGCCAGGATGAGCTG 1579
Db 722 AGAAAAATAGATGAGACCCCTTTGAAAGACTCCAGGAACCTTCAAGAGGCCAGGATGAGCTG 781

QY 1580 GACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGGATCTC 1639
Db 782 GACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGGATCTC 841

QY	1640	CTCATTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTGCG	1699
Db	842	CTCATTGACTCTCTCCAGATCACTTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTGCG	901
QY	1700	CCTCTGAARAGAGAACGTGAGCCACGTCATATGACCTTGCTGCCAGCTTACCACCTTTGSGC	1759
Db	902	CCTCTGAARAGAGAACGTGAGCCACGTCATATGACCTTGCTGCCAGCTTACCACCTTTGSGC	961
QY	1760	ATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTT	1819
Db	962	ATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTT	1021
QY	1820	CTGCAGGTGGCCGTCGAGGACCGAGTCAAGCAGCTGCATGAAGCCACAGGACCTTTGGT	1879
Db	1022	CTGCAGGTGGCCGTCGAGGACCGAGTCAAGCAGCTGCATGAAGCCACAGGACCTTTGGT	1081
QY	1880	CCAGCATCTCAGCACTTTCTTTCCACGTCGTCCAGGTCCTGGGAGAGAGCCATCTCG	1939
Db	1082	CCAGCATCTCAGCACTTTCTTTCCACGTCGTCCAGGTCCTGGGAGAGAGCCATCTCG	1141
QY	1940	CCAAACAAAGTCCCTACTATATCAACACGAGACTCAAAACAACCTTGCTGGGACCATCCC	1999
Db	1142	CCAAACAAAGTCCCTACTATATCAACACGAGACTCAAAACAACCTTGCTGGGACCATCCC	1201
QY	2000	AAAATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATAAT	2041
Db	1202	AAAATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATAAT	1243

QY	1520	AGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTG	1579
Db	2071	AGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTG	2130
QY	1580	GACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCCGGTGGCGATCTC	1639
Db	2131	GACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCCGGTGGCGATCTC	2190
QY	1640	CTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGCACTTCGAGGAGAAAATTGCG	1699
Db	2191	CTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGCACTTCGAGGAGAAAATTGCG	2250
QY	1700	CCTCTGAAAGAGAACGTTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGC	1759
Db	2251	CCTCTGAAAGAGAACGTTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACTTTGGGC	2310
QY	1760	ATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCCAGATGGAAGCTT	1819
Db	2311	ATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCCAGATGGAAGCTT	2370
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Db	2371	CTGCAGGTGGCCGTCGAGGACCGAGTCAGGACGCTGCATGAAGCCCCACAGGCACTTTGGT	2430
QY	1880	CCAGCATCTCAGCACTTTCTTTCCACGTCCTGTCAGGGTCCCTGGGAGAGAGCCATCTCG	1939
Db	2431	CCAGCATCTCAGCACTTTCTTTCCACGTCCTGTCAGGGTCCCTGGGAGAGAGCCATCTCG	2490
QY	1940	CCAAACAAAGTGCCCTACTATATCAACCCACGAGACTCAACAACTTGTGTGGGACCATCCC	1999
Db	2491	CCAAACAAAGTGCCCTACTATATCAACCCACGAGACTCAACAACTTGTGTGGGACCATCCC	2550
QY	2000	AAAATGACAGAGCTCTACCACTCTTTTAGCTGACCTGAATAAT	2041
Db	2551	AAAATGACAGAGCTCTACCACTCTTTTAGCTGACCTGAATAAT	2592

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; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: D01142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 60.9%; Score 1242; DB 12; Length 4498;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 860 GAAGCTGAAACAACTGCCAATGCTACAGGATGCTACCCGTAAGGAAAGCTCCTAGAA 919
Db 2168 GAAGCTGAAACAACTGCCAATGCTACAGGATGCTACCCGTAAGGAAAGCTCCTAGAA 2227

QY 920 GACTCCAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAGGTGAAATGAA 979
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QY 980 GCTCACACAGATGTTTATCACAACTGGATGAAACAGCCAAATAATCCTGAGATCCCTG 1039
Db 2288 GCTCACACAGATGTTTATCACAACTGGATGAAACAGCCAAATAATCCTGAGATCCCTG 2347

QY 1040 GAAGGTTCCGATGATGAGTCCCTGTTACAAAGACGTTTGGATACATGAACCTCAAGTGG 1099
Db 2348 GAAGGTTCCGATGATGAGTCCCTGTTACAAAGACGTTTGGATACATGAACCTCAAGTGG 2407

QY 1100 AGTGAACCTCGGAAAAGTCTCTCAACATTAGTGCCCATTTGGAAAGCCAGTTCTGACCCAG 1159
Db 2408 AGTGAACCTCGGAAAAGTCTCTCAACATTAGTGCCCATTTGGAAAGCCAGTTCTGACCCAG 2467

QY 1160 TGGAAAGCTCTGCACCTTCTCTGAGGAACTTCTGGTGTGGTACAGCTGAAAGATGAT 1219
Db 2468 TGGAAAGCTCTGCACCTTCTCTGAGGAACTTCTGGTGTGGTACAGCTGAAAGATGAT 2527

QY 1220 GAATTAAGCCGGCAGGCACCTATTGGAGCGGACCTTCCAGCAGTTCCAGAGCAGAACGAT 1279
Db 2528 GAATTAAGCCGGCAGGCACCTATTGGAGCGGACCTTCCAGCAGTTCCAGAGCAGAACGAT 2587

QY 1280 GTACATAGGCGCTTCAAGAGGGAAATGAAAACTTAAAGAACCTGTAATCATGATGACTCTT 1339
Db 2588 GTACATAGGCGCTTCAAGAGGGAAATGAAAACTTAAAGAACCTGTAATCATGATGACTCTT 2647

QY 1340 GAGACTGTACGAATATTCTTGACAGAGCAGCCCTTGGAAAGGACTAGAGAACTCTACCAG 1399
Db 2648 GAGACTGTACGAATATTCTTGACAGAGCAGCCCTTGGAAAGGACTAGAGAACTCTACCAG 2707

QY 1400 GAGCCCGAGAGAGCTGCCTCTGAGGAGAGAGCCCGCAAGATGTCACTCGGCTTCTACGAAAG 1459
Db 2708 GAGCCCGAGAGAGCTGCCTCTGAGGAGAGAGCCCGCAAGATGTCACTCGGCTTCTACGAAAG 2767

QY 1460 CAGGCTGAGGAGGTCATACTAGTGGGAAAAATTAACACCTGCACTCCGCTGACTGGCAG 1519
Db 2768 CAGGCTGAGGAGGTCATACTAGTGGGAAAAATTAACACCTGCACTCCGCTGACTGGCAG 2827

QY 1520 AGAAAAATAGATGAGACCCCTTGAAGACTCCAGGACTTCAAGAGGCCACCGGATGAGCTG 1579
Db 2828 AGAAAAATAGATGAGACCCCTTGAAGACTCCAGGACTTCAAGAGGCCACCGGATGAGCTG 2887

QY 1580 GACCTCAAGCTGCGCCAGAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGCTGGCGGATCTC 1639
Db 2888 GACCTCAAGCTGCGCCAGAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGCTGGCGGATCTC 2947

QY 1640 CTCATTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGCACCTCGAGGAGAAATTGGC 1699
Db 2948 CTCATTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGCACCTCGAGGAGAAATTGGC 3007

QY 1700 CCTCTGAAAGAGAACGTCAGCCACGTCATAGACCTTGTCTGCCAGCTTACCAGTTGGGC 1759
Db 3008 CCTCTGAAAGAGAACGTCAGCCACGTCATAGACCTTGTCTGCCAGCTTACCAGTTGGGC 3067

QY 1760 ATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTT 1819
Db 3068 ATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTT 3127

QY 1820 CTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGT 1879
Db 3128 CTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGT 3187

QY 1880 CCAGCATCTCAGCACTTTCTTCCACGTCGTCCAGGGTCCCTGGGAGAGAGCCATCTCG 1939
Db 3188 CCAGCATCTCAGCACTTTCTTCCACGTCGTCCAGGGTCCCTGGGAGAGAGCCATCTCG 3247

QY 1940 CCAAAACAAAGTCCCTACTATATCAACCACGAGACTCAAAACAACTGCTGGGACCATCCC 1999
Db 3248 CCAAAACAAAGTCCCTACTATATCAACCACGAGACTCAAAACAACTGCTGGGACCATCCC 3307

QY 2000 AAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAAT 2041
Db 3308 AAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAAT 3349

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Job time : 479.352 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 23:43:25 ; Search time 662.126 Seconds
(without alignments)
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1678620 segs, 1244745471 residues

Total number of hits satisfying chosen parameters: 3357240

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	2861	100.0	3858	12	US-09-845-416-9	Sequence 9, Appli
2	2861	100.0	4825	12	US-09-845-416-29	Sequence 29, Appl
3	2861	100.0	4848	12	US-09-845-416-35	Sequence 35, Appl
4	2861	100.0	5060	12	US-09-845-416-36	Sequence 36, Appl
5	2710	94.7	3999	12	US-09-845-416-6	Sequence 6, Appli
6	2710	94.7	4966	12	US-09-845-416-28	Sequence 28, Appl
7	2710	94.7	4990	12	US-09-845-416-34	Sequence 34, Appl
8	2527	88.3	4182	12	US-09-845-416-2	Sequence 2, Appli
9	2527	88.3	5149	12	US-09-845-416-27	Sequence 27, Appl
10	2197	76.8	3531	12	US-09-845-416-10	Sequence 10, Appl
11	2197	76.8	4498	12	US-09-845-416-30	Sequence 30, Appl
12	2155	75.3	3510	12	US-09-845-416-12	Sequence 12, Appl
13	2155	75.3	4476	12	US-09-845-416-31	Sequence 31, Appl
14	1735.6	60.7	11058	12	US-09-845-416-1	Sequence 1, Appli
15	1735.6	60.7	13957	10	US-09-782-378A-22	Sequence 22, Appl
16	1735.6	60.7	13957	10	US-09-880-107-2284	Sequence 2284, Ap

17	1723	60.2	2169	12	US-09-845-416-4	Sequence 4, Appli
18	1723	60.2	4414	12	US-09-845-416-32	Sequence 32, Appl
19	1711	59.8	3446	12	US-09-845-416-14	Sequence 14, Appl
20	1376	48.1	1821	12	US-09-845-416-13	Sequence 13, Appl
21	1152.2	40.3	1991	12	US-09-845-416-3	Sequence 3, Appli
22	1137	39.7	1667	12	US-09-845-416-7	Sequence 7, Appli
23	989	34.6	1434	12	US-09-845-416-15	Sequence 15, Appl
24	810	28.3	1340	12	US-09-845-416-11	Sequence 11, Appl
25	690.6	24.1	10302	10	US-09-782-378A-23	Sequence 23, Appl
26	681.8	23.8	16531	12	US-10-101-510-667	Sequence 667, App
27	190.2	6.6	256	9	US-09-864-761-21956	Sequence 21956, A
28	178	6.2	466	9	US-09-864-761-6092	Sequence 6092, Ap
29	153.4	5.4	467	9	US-09-864-761-11083	Sequence 11083, A
30	151	5.3	151	9	US-09-864-761-27715	Sequence 27715, A
31	83.6	2.9	517	13	US-10-027-632-88865	Sequence 88865, A
32	54.2	1.9	449	11	US-09-918-995-24084	Sequence 24084, A
33	54.2	1.9	2247	10	US-09-960-253-157	Sequence 157, App
34	52.6	1.8	3987	14	US-10-198-846-12468	Sequence 12468, A
35	52.6	1.8	9274	10	US-09-885-535-3	Sequence 3, Appli
36	51.4	1.8	1303	13	US-10-027-632-122837	Sequence 122837,
37	46.4	1.6	425	11	US-09-918-995-35971	Sequence 35971, A
c 38	46.4	1.6	3471	12	US-09-814-353-20732	Sequence 20732, A
c 39	46.4	1.6	3471	14	US-10-198-846-12217	Sequence 12217, A
40	46.2	1.6	15231	10	US-09-917-800A-1505	Sequence 1505, Ap
41	45.6	1.6	14800	10	US-09-954-456-1601	Sequence 1601, Ap
42	45.6	1.6	14835	12	US-10-240-965-113	Sequence 113, App
c 43	43	1.5	436	10	US-09-960-352-10742	Sequence 10742, A
44	42.8	1.5	1690	14	US-10-037-270-69	Sequence 69, Appl
45	42.2	1.5	423	9	US-09-864-761-18355	Sequence 18355, A

ALIGNMENTS

RESULT 1

US-09-845-416-9

; Sequence 9, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 9

; LENGTH: 3858

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-9

Query Match	100.0%;	Score 2861;	DB 12;	Length 3858;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2861;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GCCAGACCTATTGACTGGAATAGTGTGGTTGCCAGAGTCAGCCACACACGACTGGA	60	
Dd	540	GCCAGACCTATTGACTGGAATAGTGTGGTTGCCAGAGTCAGCCACACACGACTGGA	599	
QY	61	ACATGCATTCAACATCGCCAGATATCAATATAGGCAATAGAGAACTACTCGATCCTGAAGA	120	
Dd	600	ACATGCATTCAACATCGCCAGATATCAATATAGGCAATAGAGAACTACTCGATCCTGAAGA	659	
QY	121	TGTTGATACCACTATCCAGATAAGAGTCCATCTTAATGTATCATCATCATCTTCCA	180	
Dd	660	TGTTGATACCACTATCCAGATAAGAGTCCATCTTAATGTATCATCATCATCTTCCA	719	
QY	181	AGTTTTCCTCAACAAGTCAGCATTGAAGCCATCCAGGAAGTGGAAATGTTGCCAAGGCC	240	

Db 720 AGTTTTGCCTCAACAAGTGAGCATTTGAGCCATCCAGAAAGTGGAAATGTTGCCAAGGCC 779

QY 241 ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTACATCATCAATGACACTATTCTCAACA 300

Db 780 ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTACATCATCAATGACACTATTCTCAACA 839

QY 301 GATCACGGTCACTCTAGCACAGGGATATGAGAGAACTTCTTCCCTAAGCCCTCGATTCAA 360

Db 840 GATCACGGTCACTCTAGCACAGGGATATGAGAGAACTTCTTCCCTAAGCCCTCGATTCAA 899

QY 361 GAGCTATGCCCTACACACAGCGTCTTATGTCAACCACTCTGACCCCTACACGGAGCCCAAT 420

Db 900 GAGCTATGCCCTACACACAGCGTCTTATGTCAACCACTCTGACCCCTACACGGAGCCCAAT 959

QY 421 TCCTTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTTGAGAGAG 480

Db 960 TCCTTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTTGAGAGAG 1019

QY 481 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAAGTATTATCGTGGCTCTTTC 540

Db 1020 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAAGTATTATCGTGGCTCTTTC 1079

QY 541 TGCTGAGGACACATTTGCAAGCACAAAGGAGAGATTTCTTAATGATGTGGAAGTGTGCAAGA 600

Db 1080 TGCTGAGGACACATTTGCAAGCACAAAGGAGAGATTTCTTAATGATGTGGAAGTGTGCAAGA 1139

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Db 2400 AAAAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCACGGATGAGCTGGA 2459

QY 1921 CCTCAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGCGATCTCCT 1980

Db 2460 CCTCAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGCGATCTCCT 2519

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Db 2520 CATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTCGCC 2579

QY 2041 TCTGAAAGAGAACGTGAGCCAGCTCAATGACCTTGTCTGCCAGCTTACCACCTTTGGGCAT 2100

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US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 2861; DB 12; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 2497 AGCTGAAACAACCTGCCAATGTCTTACAGGATGCTACCCGTAAAGSAAAGGCTCCTAGAAGA 2556
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QY 1981 CATTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTCGAGGAGAAATTCGCGC 2040
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Db 3457 GCAGGTGCGCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGACTTTGGTCC 3516
QY 2221 AGCATCTCAGCACCTTTCTTCCACGCTGTCTCCAGGTCCTCGGAGAGAGCCATCTCGCC 2280
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RESULT 3
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35
Query Match 100.0%; Score 2861; DB 12; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCACAGACCTATTGACTGGAATAGTGTGGTTGCCAGCAGTCAGCCACACAAACGACTGGA 60
Db 1320 GCCAGACCTATTGACTGGAATAGTGTGGTTGCCAGCAGTCAGCCACACAAACGACTGGA 1379
QY 61 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA 120
Db 1380 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA 1439
QY 121 TGTGTATACCCTATCCAGATAAGAAGTCCATCTTAATGTACATCACATCACTCTCCA 180
Db 1440 TGTGTATACCCTATCCAGATAAGAAGTCCATCTTAATGTACATCACATCACTCTCCA 1499
QY 181 AGTTTGGCTCAACAAGTGAGCATTTGAAGCCATCCAGGAAGTGGAATGTTGCCAAGGCC 240
Db 1500 AGTTTGGCTCAACAAGTGAGCATTTGAAGCCATCCAGGAAGTGGAATGTTGCCAAGGCC 1559

QY 241 ACCTAAAGTGACTAAAGAGAGACATTTTCAGTTACATCATCAAAATGCACATATTCTCAACA 300
Db 1560 ACCTAAAGTGACTAAAGAGAGACATTTTCAGTTACATCATCAAAATGCACATATTCTCAACA 1619
QY 301 GATCACGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTCCCTAAGCCTCGATTCAA 360
Db 1620 GATCACGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTCCCTAAGCCTCGATTCAA 1679
QY 361 GAGCTATGCCCTACACACAGGCTGCTTATGTCAACACCTCTGACCCCTACACGGAGCCCAT 420
Db 1680 GAGCTATGCCCTACACACAGGCTGCTTATGTCAACACCTCTGACCCCTACACGGAGCCCAT 1739
QY 421 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAACTTATGTCAGTTCATTTGSCAGTTCAATGATGGAGAG 480
Db 1740 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAACTTATGTCAGTTCATTTGSCAGTTCAATGATGGAGAG 1799
QY 481 TGAAGTAAACCTGGACCCGTTATCAAAACAGCTTTAGAGAACTTATTCGTTGGCTTCTTTC 540
Db 1800 TGAAGTAAACCTGGACCCGTTATCAAAACAGCTTTAGAGAACTTATTCGTTGGCTTCTTTC 1859
QY 541 TGCTGAGGACACATTCGAAGCACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 600
Db 1860 TGCTGAGGACACATTCGAAGCACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1919
QY 601 CCAGTTTCATCTACTGATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 660
Db 1920 CCAGTTTCATCTACTGATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 1979
QY 661 TAATATTCTACAATTGGGAAGTAAGCTGATTTGGAACACAGGAAATTAATCAAGATGAAGA 720
Db 1980 TAATATTCTACAATTGGGAAGTAAGCTGATTTGGAACACAGGAAATTAATCAAGATGAAGA 2039
QY 721 AACTGAAGTACAAGACAGATGAATCTCCTAAATTCAGATGGGAATGCCCTCAGGTAGC 780
Db 2040 AACTGAAGTACAAGACAGATGAATCTCCTAAATTCAGATGGGAATGCCCTCAGGTAGC 2099
QY 781 TAGCATGGAATAACAAAGCAATTACATAGAGTTTAATGGATCTCCAGATCAGAAACT 840
Db 2100 TAGCATGGAATAACAAAGCAATTACATAGAGTTTAATGGATCTCCAGATCAGAAACT 2159
QY 841 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAGAAAGAAAGAAATGGAGGAAGA 900
Db 2160 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAGAAAGAAAGAAATGGAGGAAGA 2219
QY 901 GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACATAGGTGCTTCA 960
Db 2220 GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACATAGGTGCTTCA 2279
QY 961 AGAAGATCTAGAACAAAGAACAAAGTCAAGGTCAATCTCTCACTCACATGGTGGTAGT 1020
Db 2280 AGAAGATCTAGAACAAAGAACAAAGTCAAGGTCAATCTCTCACTCACATGGTGGTAGT 2339
QY 1021 TGATGAATCTAGTGGAGATCACGGAACCTGCTGGTTGGAAGAACAACTTAAGGTATTGGG 1080
Db 2340 TGATGAATCTAGTGGAGATCACGGAACCTGCTGGTTGGAAGAACAACTTAAGGTATTGGG 2399
QY 1081 AGATCGATGGCAACATCTGTAGATGGACAGAACCCGCTGGGTTCTTTTACAAAGACAC 1140
Db 2400 AGATCGATGGCAACATCTGTAGATGGACAGAACCCGCTGGGTTCTTTTACAAAGACAC 2459
QY 1141 TCATAGATTACTGCAACAGATTCCCCCTGGACCTGGAAGAAAGTTTCTTGCTGCTTACAGA 1200
Db 2460 TCATAGATTACTGCAACAGATTCCCCCTGGACCTGGAAGAAAGTTTCTTGCTGCTTACAGA 2519
QY 1201 AGCTGAACAACTGCCAATGTCTACAGGATGCTACCCGTAGGAAAGGCTCTTAGAAGA 1260
Db 2520 AGCTGAACAACTGCCAATGTCTACAGGATGCTACCCGTAGGAAAGGCTCTTAGAAGA 2579
QY 1261 CTCCAAGGGAGTAAAGAGCTGATGAACAAATGGCAAGACCTCAAGGTGAATTAAGC 1320
Db 2580 CTCCAAGGGAGTAAAGAGCTGATGAACAAATGGCAAGACCTCAAGGTGAATTAAGC 2639
QY 1321 TCACACAGATGTTTATCAACAACCTGGATGAAACAGCCAAAATCCTGAGATCCCTGGA 1380

Db 2640 TCACACAGATGTTTATCAACAACCTGGATGAAACACAGCCAAAATCCTGAGATCCCTGGA 2699
QY 1381 AGGTTCCGATGATGCAGTCTGTTTACAAAGACGTTTGGATAAACATGAACCTTCAAGTGGAG 1440
Db 2700 AGGTTCCGATGATGCAGTCTGTTTACAAAGACGTTTGGATAAACATGAACCTTCAAGTGGAG 2759
QY 1441 TGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTG 1500
Db 2760 TGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTG 2819
QY 1501 GAAAGCTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGA 1560
Db 2820 GAAAGCTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGA 2879
QY 1561 ATTAAGCCCGCAGGCACCTTATTTGGAGGCGACTTTCAGCAGTTCCAGAGCAGAACATGT 1620
Db 2880 ATTAAGCCCGCAGGCACCTTATTTGGAGGCGACTTTCAGCAGTTCCAGAGCAGAACATGT 2939
QY 1621 ACATAGGGCCCTCAAGAGGGAATTAAGAACTAAAGAACTGTAAATCATGAGTACTCTTGA 1680
Db 2940 ACATAGGGCCCTCAAGAGGGAATTAAGAACTAAAGAACTGTAAATCATGAGTACTCTTGA 2999
QY 1681 GACTGTACGAATATTCTGACAGAGCAGCCTTTTGGAGGACTTAGAGAACTCTACAGGA 1740
Db 3000 GACTGTACGAATATTCTGACAGAGCAGCCTTTTGGAGGACTTAGAGAACTCTACAGGA 3059
QY 1741 GCCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCCAAGATGTCACCTCGGCTTCTACGAAAGCA 1800
Db 3060 GCCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCCAAGATGTCACCTCGGCTTCTACGAAAGCA 3119
QY 1801 GSGTGAGGAGGTCAATACTGAGTGGGAAAAATTAAGCTGCACCTCCGCTGACTGGCAGAG 1860
Db 3120 GSGTGAGGAGGTCAATACTGAGTGGGAAAAATTAAGCTGCACCTCCGCTGACTGGCAGAG 3179
QY 1861 AAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGA 1920
Db 3180 AAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGA 3239
QY 1921 CCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTTGGCAGCCCTGGGGGGATCTCCT 1980
Db 3240 CCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTTGGCAGCCCTGGGGGGATCTCCT 3299
QY 1981 CATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTTGGGCC 2040
Db 3300 CATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTTGGGCC 3359
QY 2041 TCTGAAAGAGAACGCTGAGCCACGTCATGATGACCTTGTCTGCCAGCTTACCACCTTTGGGCAT 2100
Db 3360 TCTGAAAGAGAACGCTGAGCCACGTCATGATGACCTTGTCTGCCAGCTTACCACCTTTGGGCAT 3419
QY 2101 TCAGCTCTCACCGTATAACCTCAGCAGCTCTTGGAGACCTTGAACACCCAGATGGAAGCTTCT 2160
Db 3420 TCAGCTCTCACCGTATAACCTCAGCAGCTCTTGGAGACCTTGAACACCCAGATGGAAGCTTCT 3479
QY 2161 GCAGGTGGCCGTCGAGGACCCGAGTCAGGACGCTGCATGAAAGCCACAGGGACTTTGGTCC 2220
Db 3480 GCAGGTGGCCGTCGAGGACCCGAGTCAGGACGCTGCATGAAAGCCACAGGGACTTTGGTCC 3539
QY 2221 AGCATCTCAGCACTTTCTTCCACGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 2280
Db 3540 AGCATCTCAGCACTTTCTTCCACGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 3599
QY 2281 AAAAAGAGTGCCTACTATATCAACCCACGAGACTCAAAACAACTTGCTGGAGACCATCCAA 2340
Db 3600 AAAAAGAGTGCCTACTATATCAACCCACGAGACTCAAAACAACTTGCTGGAGACCATCCAA 3659
QY 2341 AATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATATGTGAGATTTCTCAGCTTATAG 2400
Db 3660 AATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATATGTGAGATTTCTCAGCTTATAG 3719
QY 2401 GATGCCCATGAAACTCCGAAGACTGCAGAGGCCCTTTGGTTGGATCTCTTGAGCCTGTC 2460

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Db 3720 GACTGCCATGAAACTCCGAAGACTGCAGAGGCCCTTTGCTTGGATCTCTTGAGCCTGTC 3779
QY 2461 AGCTGCATGTGATGCCCTTGGACCAGCACAACTCAAGCAAAATGACCAGCCCATGGATAT 2520
Db 3780 AGCTGCATGTGATGCCCTTGGACCAGCACAACTCAAGCAAAATGACCAGCCCATGGATAT 3839
QY 2521 CCTGCCAGATTATTAATTGTTTGACCACTATTATGACCGCCTGGAGCAAGAGCAACAA 2580
Db 3840 CCTGCCAGATTATTAATTGTTTGACCACTATTATGACCGCCTGGAGCAAGAGCAACAA 3899
QY 2581 TTTGGTCAACGTCCTCTCTGCGTGGATATGTGCTGAACTGGCTGTAATGTTTATGA 2640
Db 3900 TTTGGTCAACGTCCTCTCTGCGTGGATATGTGCTGAACTGGCTGTAATGTTTATGA 3959
QY 2641 TACCGACGAACAGGAGGATCCGTGTCCTGTCTTTTAAAACCTGGCATCATTTCCCTGTG 2700
Db 3960 TACCGACGAACAGGAGGATCCGTGTCCTGTCTTTTAAAACCTGGCATCATTTCCCTGTG 4019
QY 2701 TAAAGCACATTTTGAAGACAAAGTACAGATACATACCTTTTCAAGCAAGTGGCAAGTTCACAGG 2760
Db 4020 TAAAGCACATTTTGAAGACAAAGTACAGATACATACCTTTTCAAGCAAGTGGCAAGTTCACAGG 4079
QY 2761 ATTTGTGACCGCAGGCGTGGGCTCCTTCTGTCATGATTTCTATCCAAATTCACAGACA 2820
Db 4080 ATTTGTGACCGCAGGCGTGGGCTCCTTCTGTCATGATTTCTATCCAAATTCACAGACA 4139
QY 2821 GTTGGGTGAAGTGCATCCTTTGGGGGCAGTAACATTGAGC 2861
Db 4140 GTTGGGTGAAGTGCATCCTTTGGGGGCAGTAACATTGAGC 4180

RESULT 4
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 2861; DB 12; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGACCTATTTCAGCTGGAATAGTGTGGTTGCCAGCTCAGCCACACAAACGACTGGA 60
Db 1532 GCCAGACCTATTTCAGCTGGAATAGTGTGGTTGCCAGCTCAGCCACACAAACGACTGGA 1591
QY 61 ACATGCATTCAACATGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA 120
Db 1592 ACATGCATTCAACATGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA 1651
QY 121 TGTGTATACCACCTATCCAGATAAGAGTCCATCTTAATGTATACATCACATCACTCTCCA 180
Db 1652 TGTGTATACCACCTATCCAGATAAGAGTCCATCTTAATGTATACATCACATCACTCTCCA 1711
QY 181 AGTTTGCCTCAACAAGTGAGCATTTGAAGCATCCAGGATCCAGGAAGTGGAAATGTTGCCAAGGCC 240
Db 1712 AGTTTGCCTCAACAAGTGAGCATTTGAAGCATCCAGGATCCAGGAAGTGGAAATGTTGCCAAGGCC 1771
QY 241 ACCTAAAGTGACTAAAGAAGAACATTTTCAAGTTACATCATCAAAATGCATATTCTCAACA 300
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Db 1772 ACCTAAAGTGACTAAAGAAGAACATTTTCAAGTTACATCATCAAAATGCATATTCTCAACA 1831
QY 301 GATCAGGTCAGTCTAGCACAGGATATGAGAGAACTTCTCCCTAAGCCTCGATTCAA 360
Db 1832 GATCAGGTCAGTCTAGCACAGGATATGAGAGAACTTCTCCCTAAGCCTCGATTCAA 1891
QY 361 GAGCTATGCCATACACAGGCTGCTTATGTCCACCACCTCTGACCCCTACAGGAGCCCAT 420
Db 1892 GAGCTATGCCATACACAGGCTGCTTATGTCCACCACCTCTGACCCCTACAGGAGCCCAT 1951
QY 421 TCCTTCACAGCATTTGGAAGCTCTTGAAGACAGTTCATTTGSCAGTTTCATTTGATGGAGAG 480
Db 1952 TCCTTCACAGCATTTGGAAGCTCTTGAAGACAGTTCATTTGSCAGTTTCATTTGATGGAGAG 2011
QY 481 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC 540
Db 2012 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC 2071
QY 541 TGCTGAGGACACATTCGAAGCACACAGGAGAGATTTCTAATGATGTGGAGTGGTGAAGA 600
Db 2072 TGCTGAGGACACATTCGAAGCACACAGGAGAGATTTCTAATGATGTGGAGTGGTGAAGA 2131
QY 601 CCAGTTTCATCTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGGCCGGTTGG 660
Db 2132 CCAGTTTCATCTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGGCCGGTTGG 2191
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QY 721 AACTGAAGTACAAGACAGATGATGATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 780
Db 2252 AACTGAAGTACAAGACAGATGATGATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 2311
QY 781 TAGCATGGAATAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGATCAGAAACT 840
Db 2312 TAGCATGGAATAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGATCAGAAACT 2371
QY 841 GAAAGAGTGAATGACTGGCTAAACAAAACAGAGAAAGAAAGAAATGGAGGAAGA 900
Db 2372 GAAAGAGTGAATGACTGGCTAAACAAAACAGAGAAAGAAAGAAATGGAGGAAGA 2431
QY 901 GCCTCTTGGACCTGATCTTTGAAGACCTTAAACGCCAAGTACAAACATTAAGTGTCTCA 960
Db 2432 GCCTCTTGGACCTGATCTTTGAAGACCTTAAACGCCAAGTACAAACATTAAGTGTCTCA 2491
QY 961 AGAAGATCTAGAACHAACAACAGTACAGGGTCAATTTCTCTCATCATCATGTTGGTGTAGT 1020
Db 2492 AGAAGATCTAGAACHAACAACAGTACAGGGTCAATTTCTCTCATCATCATGTTGGTGTAGT 2551
QY 1021 TGATGAATCTAGTGGGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 1080
Db 2552 TGATGAATCTAGTGGGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 2611
QY 1081 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCCGCTGGGTCTTTTACAAGACAC 1140
Db 2612 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCCGCTGGGTCTTTTACAAGACAC 2671
QY 1141 TCATAGATTACTGCAACAGTTCCCTCGACCTGGACCTGGAAAAAGTTTCTTCCCTGCTTACAGA 1200
Db 2672 TCATAGATTACTGCAACAGTTCCCTCGACCTGGACCTGGAAAAAGTTTCTTCCCTGCTTACAGA 2731
QY 1201 AGCTGAACAACCTGCCAATGTCTTACAGGATGCTACCCGTAAAGGAAAGGCTCCTAGAAGA 1260
Db 2732 AGCTGAACAACCTGCCAATGTCTTACAGGATGCTACCCGTAAAGGAAAGGCTCCTAGAAGA 2791
QY 1261 CTCCAAGGGAGTAAAGAGCTGATGAACAATGSCAAGACCTCCAAGGTGAATTTGAAGC 1320
Db 2792 CTCCAAGGGAGTAAAGAGCTGATGAACAATGSCAAGACCTCCAAGGTGAATTTGAAGC 2851
QY 1321 TCACACAGATGTTTATCACAACTGGATGAAACAGCCCAAAAATCCTGAGATCCCTGGA 1380
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Db 2852 TCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGGA 2911

QY 1381 AGGTTCCGATGATGCAGTCCTGTTACAAAGACGTTTGATATAACATGAACCTTCAACTGGAG 1440

Db 2912 AGGTTCCGATGATGCAGTCCTGTTACAAAGACGTTTGATATAACATGAACCTTCAACTGGAG 2971

QY 1441 TGAACCTTCGAAAAAGTCTCTCAACATTAGGTCCTTGAAGCCAGTCTTGACCAAGTG 1500

Db 2972 TGAACCTTCGAAAAAGTCTCTCAACATTAGGTCCTTGAAGCCAGTCTTGACCAAGTG 3031

QY 1501 GAAGCGCTGCACACCTTTCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGA 1560

Db 3032 GAAGCGCTGCACACCTTTCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGA 3091

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Db 3092 ATTAAGCCGCGAGGCACCTATTTGGAGGCGACTTCCAGCAGTTCAGAGCAGAAACATGT 3151

QY 1621 ACATAGGGCCTCAAGAGGGAATTTGAAACTAAAGAACCTGTAAATCATGAGTACTCTTGA 1680

Db 3152 ACATAGGGCCTCAAGAGGGAATTTGAAACTAAAGAACCTGTAAATCATGAGTACTCTTGA 3211

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Db 3212 GACTGTACGAATATTTCTGCAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCAGGA 3271

QY 1741 GCCCAGAGAGCTGCCTCCTGTAGGAGAGAGGCCAGAAATGTCACCTCGGCTTCTACGAAGCA 1800

Db 3272 GCCCAGAGAGCTGCCTCCTGTAGGAGAGAGGCCAGAAATGTCACCTCGGCTTCTACGAAGCA 3331

QY 1801 GGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAG 1860

Db 3332 GGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAG 3391

QY 1861 AAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGGA 1920

Db 3392 AAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACCTTCAAGAGGCCACGATGAGCTGGA 3451

QY 1921 CCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCT 1980

Db 3452 CCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCT 3511

QY 1981 CATGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTCGCGC 2040

Db 3512 CATGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTCGCGC 3571

QY 2041 TCTGAAAGAGACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCAT 2100

Db 3572 TCTGAAAGAGACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCAT 3631

QY 2101 TCAGCTCTCACCGTATACCTCAGCAGCTCTGGAAGACCTGGAACACCAGATGGAAGCTTCT 2160

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QY 2161 GCAGTGGCCGTCGAGGACCGAGTCAGGCAGCTGATGAAGCCACAGGCACTTTGGTCC 2220

Db 3692 GCAGTGGCCGTCGAGGACCGAGTCAGGCAGCTGATGAAGCCACAGGCACTTTGGTCC 3751

QY 2221 AGCATCTCAGCAGCTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 2280

Db 3752 AGCATCTCAGCAGCTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 3811

QY 2281 AAACAAAGTGCCCTACTATATCAACCACGAGACTCAACAACTTGCTGGGACCATCCCAA 2340

Db 3812 AAACAAAGTGCCCTACTATATCAACCACGAGACTCAACAACTTGCTGGGACCATCCCAA 3871

QY 2341 AATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAG 2400

Db 3872 AATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAG 3931

QY 2401 GACTGCCATGAAACTCCGAAGACTGACAGAGGCGCCTTTGCTTGGATCTCTTGAGCCTGTC 2460

Db 3932 GACTGCCATGAAACTCCGAAGACTGACAGAGGCGCCTTTGCTTGGATCTCTTGAGCCTGTC 3991

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Db 4052 CCTGCAGATTATTAATTGTTTGACCACTATTATGACCGCCTTGAGCAAGAGCAACA 4111

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QY 2641 TACGGGACGAACAGGGAGGATCCGTGCTCTCTTTTAAAACTGGCATCATTTCCCTGTG 2700

Db 4172 TACGGGACGAACAGGGAGGATCCGTGCTCTCTTTTAAAACTGGCATCATTTCCCTGTG 4231

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Db 4232 TAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 4291

QY 2761 ATTTTGTGACCGCGCAGGCTGGCCCTCTTCTGTCATGATTCTATCCAAATTCAGAGACA 2820

Db 4292 ATTTTGTGACCGCGCAGGCTGGCCCTCTTCTGTCATGATTCTATCCAAATTCAGAGACA 4351

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Db 4352 GTTGGTGAAGTTGCATCCTTTGGGGGCGAGTAACATTGAGC 4392

RESULT 5

US-09-845-416-6
; Sequence 6; Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens

US-09-845-416-6
Query Match 94.7%; Score 2710; DB 12; Length 3999;
Best Local Similarity 95.3%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 141; Gaps 1;
QY 1 GCACAGACCTATTGTGACTGGAAATAGTGTGGTTGCCAGCAGTCAGCCACACAAACGACTGGA 60
Db 540 GCACAGACCTATTGTGACTGGAAATAGTGTGGTTGCCAGCAGTCAGCCACACAAACGACTGGA 599
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Db 600 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA 659
QY 121 TGTGATACCACTATCCAGATAAGAGTCCATCTTAATGTACATCATCACTCTTCCA 180
Db 660 TGTGATACCACTATCCAGATAAGAGTCCATCTTAATGTACATCATCACTCTTCCA 719
QY 181 AGTTTTCCTCAACAAGTGAAGTGAAGCCATCCAGGAAGTGGAAATGTGCCAAGGCC 240
Db 720 AGTTTTCCTCAACAAGTGAAGTGAAGCCATCCAGGAAGTGGAAATGTGCCAAGGCC 779
QY 241 ACCTAAAGTGACTAAAGAGAGACATTTTCAGTTACATCATCAAAATGCACATTTCTCAACA 300

Db 780 ACCTAAAGTGACTAAAGAGARACATTTTCAGTTACATCATCAATGCACATATTCTCAACA 839

QY 301 GATCAGGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCTTAAGCCTCGATTCAA 360

Db 840 GATCAGGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCTTAAGCCTCGATTCAA 899

QY 361 GAGCTATGCCTACACACAGGCTGCTTATGTACCACCTCTGACCCCTACAGGAGCCCATTT 420

Db 900 GAGCTATGCCTACACACAGGCTGCTTATGTACCACCTCTGACCCCTACAGGAGCCCATTT 959

QY 421 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAGTCAATTTGGCAGTTCATGATGGAGAG 480

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QY 481 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAACTATTATCGTGGCTTCTTTC 540

Db 1020 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAACTATTATCGTGGCTTCTTTC 1079

QY 541 TGCTGAGGACACATTTGCAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 600

Db 1080 TGCTGAGGACACATTTGCAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1139

QY 601 CCAGTTTCATCTCATGAGGGGTACATGATGATTTTGACAGCCCATCAGSGCCGGTTGG 660

Db 1140 CCAGTTTCATCTCATGAGGGGTACATGATGATTTTGACAGCCCATCAGSGCCGGTTGG 1199

QY 661 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGAAAATTATCAGAAGATGAAGA 720

Db 1200 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGAAAATTATCAGAAGATGAAGA 1259

QY 721 AACTGAGTACAAAGCAGATGAATCTCTTAATTTCAAGATGGGAATGCCTCAGGGTAGC 780

Db 1260 AACTGAGTACAAAGCAGATGAATCTCTTAATTTCAAGATGGGAATGCCTCAGGGTAGC 1319

QY 781 TAGCATGGAAAAACAAGCAATTATCATAGAGTTTAAATGATCTCCAGAAATCAGAAACT 840

Db 1320 TAGCATGGAAAAACAAGCAATTATCATAGAGTTTAAATGATCTCCAGAAATCAGAAACT 1379

QY 841 GAAAGAGTTGAATGACTGGCTTAACAATAACAGAAAGAAAGAAAGGAAATGGAGGAAGA 900

Db 1380 GAAAGAGTTGAATGACTGGCTTAACAATAACAGAAAGAAAGAAAGGAAATGGAGGAAGA 1439

QY 901 GCCTCTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAACAACATAGGTGCTTCA 960

Db 1440 GCCTCTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAACAACATAGGTGCTTCA 1499

QY 961 AGAAGATCTAGAACAAAGAACAAAGTCAGGGTCAATCTCTCACTCACATGTTGGTGTAGT 1020

Db 1500 AGAAGATCTAGAACAAAGAACAAAGTCAGGGTCAATCTCTCACTCACATGTTGGTGTAGT 1559

QY 1021 TGATGAATCTAGTGGAGATCACGCAACTGCTGTTTGGAAAGAACAACTTAAGGTATTGGG 1080

Db 1560 TGATGAATCTAGTGGAGATCACGCAACTGCTGTTTGGAAAGAACAACTTAAGGTATTGGG 1619

QY 1081 AGATCGATGGCAAAACATCTGTAGATGGACAGAACCGCTGGGTTCTTTTACAAGAC-- 1138

Db 1620 AGATCGATGGCAAAACATCTGTAGATGGACAGAACCGCTGGGTTCTTTTACAAGACCA 1679

QY 1139 ----- 1138

Db 1680 GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCTCTCTACTCAGACTGTTACTCT 1739

QY 1139 ----- 1138

Db 1740 GGTGACACAACCTGTGGTTACTTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 1799

QY 1139 -----ACTCATAGATTACTGCAACAGTTCCCTGACCTGGAAAA 1179

Db 1800 CTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAGTTCCCTGACCTGGAANA 1859

QY 1180 GTTTCCTGCTTACAGAAGGTGAACAACACTGCCAATGTCCTACAGGATGCTACCCG 1239

Db 1860 GTTTCCTGCTTACAGAAGGTGAACAACACTGCCAATGTCCTACAGGATGCTACCCG 1919

QY 1240 TAAAGGAAAGGCTCCTAGAAAGACTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGA 1299

Db 1920 TAAAGGAAAGGCTCCTAGAAAGACTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGA 1979

QY 1300 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAAACCTGGATGAAAACAGCCA 1359

Db 1980 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAAACCTGGATGAAAACAGCCA 2039

QY 1360 AAAAATCCTGAGATCCCTTGAAGGTTCCGATGATGAGTCCCTGTTACAAAAGACGTTTGA 1419

Db 2040 AAAAATCCTGAGATCCCTTGAAGGTTCCGATGATGAGTCCCTGTTACAAAAGACGTTTGA 2099

QY 1420 TAACATGAACCTCAAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTAGTCCCATTT 1479

Db 2100 TAACATGAACCTCAAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTAGTCCCATTT 2159

QY 1480 GGAAGCCAGTTCTGACCCAGTGAAGCGTCTGCACCTTCTCTGCAGGAACTTCTGCTGTG 1539

Db 2160 GGAAGCCAGTTCTGACCCAGTGAAGCGTCTGCACCTTCTCTGCAGGAACTTCTGCTGTG 2219

QY 1540 GCTACAGCTGAAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCAGC 1599

Db 2220 GCTACAGCTGAAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCAGC 2279

QY 1600 AGTTCAGAAAGCAACGATGTACATAGGGCCTTCAAGAGGGGAATTGAAAACTTAAAGAACC 1659

Db 2280 AGTTCAGAAAGCAACGATGTACATAGGGCCTTCAAGAGGGGAATTGAAAACTTAAAGAACC 2339

QY 1660 TGTAAATCATGAGTACTCTTGAGACTGTACGAATAATTTCTGACAGAGCAGCCCTTTGAAGG 1719

Db 2340 TGTAAATCATGAGTACTCTTGAGACTGTACGAATAATTTCTGACAGAGCAGCCCTTTGAAGG 2399

QY 1720 ACTAGAGAAACTCTACCAGGAGCCCCAGAGAGCTGCCCTCTGAGGAGAGAGCCCCAGAAATGT 1779

Db 2400 ACTAGAGAAACTCTACCAGGAGCCCCAGAGAGCTGCCCTCTGAGGAGAGAGCCCCAGAAATGT 2459

QY 1780 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTTGAACCT 1839

Db 2460 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTTGAACCT 2519

QY 1840 GCCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCA 1899

Db 2520 GCCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCA 2579

QY 1900 AGAGGCCACGGATGAGCTGGACCTCAAGTGCGCCAAGCTGAGGTGATCAAGGGATCCTG 1959

Db 2580 AGAGGCCACGGATGAGCTGGACCTCAAGTGCGCCAAGCTGAGGTGATCAAGGGATCCTG 2639

QY 1960 GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAGATCACCTCGAGAAAAGTCAAGGC 2019

Db 2640 GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAGATCACCTCGAGAAAAGTCAAGGC 2699

QY 2020 ACTTCGAGGAGAAAATTGCGCTCTGAAAGAGAAACGTGAGCCACCTCAATGAACCTTGCTCG 2079

Db 2700 ACTTCGAGGAGAAAATTGCGCTCTGAAAGAGAAACGTGAGCCACCTCAATGAACCTTGCTCG 2759

QY 2080 CCAGCTTACCCTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 2139

Db 2760 CCAGCTTACCCTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 2819

QY 2140 GAAACACAGATGGAAGCTTCTGAGGTGGCCGTGAGGACCGAGTCAGGCGAGCTGCATGA 2199

Db 2820 GAAACACAGATGGAAGCTTCTGAGGTGGCCGTGAGGACCGAGTCAGGCGAGCTGCATGA 2879

QY 2200 AGCCACAGGAACTTTGGTCCAGCATCTCAGCACTTCTTCCAGCTGTGCCAGGCTCC 2259

Db 2880 AGCCACAGGAACTTTGGTCCAGCATCTCAGCACTTCTTCCAGCTGTGCCAGGCTCC 2939

QY 2260 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCACGAGACTCAAC 2319

Db 2940 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCACGAGACTCAAC 2999

QY	2320	AACTTGCTGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAA	2379
Db	3000	AACTTGCTGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAA	3059
QY	2380	TGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCGAAGACTGCAGAGGCCCTTTG	2439
Db	3060	TGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCGAAGACTGCAGAGGCCCTTTG	3119
QY	2440	CTTGGATCTCTGAGCCCTGTCAGCTGCATGTGATGCCCTTGGACCGACACAACCTCAAGCA	2499
Db	3120	CTTGGATCTCTGAGCCCTGTCAGCTGCATGTGATGCCCTTGGACCGACACAACCTCAAGCA	3179
QY	2500	AAATGACCAGCCCATGGATATCCTGCGAGATTATTAATGTTTGACCACATATTTATGACCG	2559
Db	3180	AAATGACCAGCCCATGGATATCCTGCGAGATTATTAATGTTTGACCACATATTTATGACCG	3239
QY	2560	CCTGGAGCAAGAGCACAAACAATTTGGTCAACGTCCTCTCTCGTGGATATGTCTGTAA	2619
Db	3240	CCTGGAGCAAGAGCACAAACAATTTGGTCAACGTCCTCTCTCGTGGATATGTCTGTAA	3299
QY	2620	CTGGCTGCTGAATGTTTATGATACGGGACCAACAGGGAGGATCCGTCTCCTGTCTTTAA	2679
Db	3300	CTGGCTGCTGAATGTTTATGATACGGGACCAACAGGGAGGATCCGTCTCCTGTCTTTAA	3359
QY	2680	AACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACCTTTTCAA	2739
Db	3360	AACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACCTTTTCAA	3419
QY	2740	GCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCCCTCCTTCTGCAATGA	2799
Db	3420	GCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCCCTCCTTCTGCAATGA	3479
QY	2800	TTCTATCCAAATCCAAAGACAGTTGGTGAAGTTGCATCCTTTGGGGCAGTAACATTTGA	2859
Db	3480	TTCTATCCAAATCCAAAGACAGTTGGTGAAGTTGCATCCTTTGGGGCAGTAACATTTGA	3539
QY	2860	GC 2861	
Db	3540	GC 3541	
RESULT 6			
US-09-845-416-28			
; Sequence 28, Application US/09845416			
; Publication No. US20030171312A1			
; GENERAL INFORMATION:			
; APPLICANT: XIAO, XIAO			
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE			
; FILE REFERENCE: DE1142			
; CURRENT APPLICATION NUMBER: US/09/845,416			
; CURRENT FILING DATE: 2001-04-30			
; PRIOR APPLICATION NUMBER: 60/200,777			
; PRIOR FILING DATE: 2000-04-28			
; NUMBER OF SEQ ID NOS: 36			
; SOFTWARE: PatentIn ver. 2.1			
; SEQ ID NO 28			
; LENGTH: 4966			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-09-845-416-28			
Query Match 94.7%; Score 2710; DB 12; Length 4966;			
Best Local Similarity 95.3%; Pred. No. 0;			
Matches 2861; Conservative 0; Mismatches 0; Indels 141; Gaps 1;			
QY	1	GCCAGACCTATTTGACTGGAATAGTGTGGTTGCCAGCAGTGCAGCCACACAACGACTGGA	60
Db	1297	GCCAGACCTATTTGACTGGAATAGTGTGGTTGCCAGCAGTGCAGCCACACAACGACTGGA	1356
QY	61	ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAACTACTCGATCCTGAAGA	120
Db	1357	ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAACTACTCGATCCTGAAGA	1416

QY	121	TGTTGATACCACCTATCCAGATAAAGAGTCCATCTTAATGTACATCACATCACTCTTCCA	180
Db	1417	TGTTGATACCACCTATCCAGATAAAGAGTCCATCTTAATGTACATCACATCACTCTTCCA	1476
QY	181	AGTTTTGCCTCAACAAGTGAAGCCATCCAGGAAGTGGAAAATGTTGCCAAGGCC	240
Db	1477	AGTTTTGCCTCAACAAGTGAAGCCATCCAGGAAGTGGAAAATGTTGCCAAGGCC	1536
QY	241	ACCTAAAGTGAATAAAGAAACAATTTCAAGTTACATCATCAAAATGCACATATTCTCAACA	300
Db	1537	ACCTAAAGTGAATAAAGAAACAATTTCAAGTTACATCATCAAAATGCACATATTCTCAACA	1596
QY	301	GATCACGGTCAAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCCTAAGCCTCGATTCAA	360
Db	1597	GATCACGGTCAAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCCTAAGCCTCGATTCAA	1656
QY	361	GAGCTATGCCTACACACAGGCTGCTTATGTCAACCACTCTGACCCCTACACAGGAGCCCAT	420
Db	1657	GAGCTATGCCTACACACAGGCTGCTTATGTCAACCACTCTGACCCCTACACAGGAGCCCAT	1716
QY	421	TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTTGATGGAGAG	480
Db	1717	TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTTGATGGAGAG	1776
QY	481	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATTTATCGTGGTCTTCTTC	540
Db	1777	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATTTATCGTGGTCTTCTTC	1836
QY	541	TGCTGAGGACACATTTGCAAGCACAAAGGAGAGATTTCTTAATGATGTGAAAGTGGTGAAGA	600
Db	1837	TGCTGAGGACACATTTGCAAGCACAAAGGAGAGATTTCTTAATGATGTGAAAGTGGTGAAGA	1896
QY	601	CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCCATCAGGGCCGGTGG	660
Db	1897	CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCCATCAGGGCCGGTGG	1956
QY	661	TAATATTCTCAATTTGGGAAGTAAGCTGATTTGGAACAGGAAAATTTATCAGAAGATGAAGA	720
Db	1957	TAATATTCTCAATTTGGGAAGTAAGCTGATTTGGAACAGGAAAATTTATCAGAAGATGAAGA	2016
QY	721	AACTGAAGTACAAGAGCAGCATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC	780
Db	2017	AACTGAAGTACAAGAGCAGCATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC	2076
QY	781	TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT	840
Db	2077	TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT	2136
QY	841	GAAAGAGTTGAATGACTGGCTAACAAAACAGAGAAGAAACAAGGAAAATGGAGGAAGA	900
Db	2137	GAAAGAGTTGAATGACTGGCTAACAAAACAGAGAAGAAACAAGGAAAATGGAGGAAGA	2196
QY	901	GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAACACATAAGGTGCTCA	960
Db	2197	GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAACACATAAGGTGCTCA	2256
QY	961	AGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATTTCTCCTCCTCAGATGGTGGTAGT	1020
Db	2257	AGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATTTCTCCTCCTCAGATGGTGGTAGT	2316
QY	1021	TGATGAATCTAGTGGAGATCACGCCAACTGCTGCTTTTGAAGAACAACATTAAGGTATGGG	1080
Db	2317	TGATGAATCTAGTGGAGATCACGCCAACTGCTGCTTTTGAAGAACAACATTAAGGTATGGG	2376
QY	1081	AGATCGATGGGCAAAACATCTGTAGATGGACAGAAGACCGCTGGTCTTTTACAGAC--	1138
Db	2377	AGATCGATGGGCAAAACATCTGTAGATGGACAGAAGACCGCTGGTCTTTTACAGACCA	2436
QY	1139	-----	1138
Db	2437	GCCTGACCTAGCTCCTGGAGTGACCACACTATTGGAGCCCTCTCCTACTCAGACTGTTACTCT	2496

QY 1139 ----- 1138
Db 2497 GGTGACACAACCTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 2556
QY 1139 -----ACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAA 1179
Db 2557 CTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAA 2616
QY 1180 GTTCTTGCTGCTGCTTACAGAAGCTGAAACAACTGCCAATGCTCCTACAGGATGCTACCCG 1239
Db 2617 GTTCTTGCTGCTGCTTACAGAAGCTGAAACAACTGCCAATGCTCCTACAGGATGCTACCCG 2676
QY 1240 TAAGGAAAGGCTCCTAGAGACTCCAAAGGGAGTAAAGAGCTGATGAACAATGGCAAGA 1299
Db 2677 TAAGGAAAGGCTCCTAGAGACTCCAAAGGGAGTAAAGAGCTGATGAACAATGGCAAGA 2736
QY 1300 CCTCCAAAGGTGAATGAAGCTCACACAGATGTTTATCACAACTGGATGAAACACAGCCA 1359
Db 2737 CCTCCAAAGGTGAATGAAGCTCACACAGATGTTTATCACAACTGGATGAAACACAGCCA 2796
QY 1360 AAAATCCTGAGATCCCTGGAAGTTCAGATGATGCAGTCTCTGTACAAAGACGTTTGA 1419
Db 2797 AAAATCCTGAGATCCCTGGAAGTTCAGATGATGCAGTCTCTGTACAAAGACGTTTGA 2856
QY 1420 TAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTT 1479
Db 2857 TAACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTT 2916
QY 1480 GGAAGCAGATTCTGACCAGTGGAAAGCTCTGCACCTTTCTCTGCAGGAACCTCTGGTGTG 1539
Db 2917 GGAAGCAGATTCTGACCAGTGGAAAGCTCTGCACCTTTCTCTGCAGGAACCTCTGGTGTG 2976
QY 1540 GCTACAGTGAAGATGATGAATTAAGCCGGCAGCACCTATTGGAGGCGACTTCCAGC 1599
Db 2977 GCTACAGTGAAGATGATGAATTAAGCCGGCAGCACCTATTGGAGGCGACTTCCAGC 3036
QY 1600 AGTTCAGAAGCAGAAACGATGTACATAGGGCCTTCAAGAGGGAAATGAAACATAAGAAC 1659
Db 3037 AGTTCAGAAGCAGAAACGATGTACATAGGGCCTTCAAGAGGGAAATGAAACATAAGAAC 3096
QY 1660 TGTAATCATGAGTACTCTGAGACTGTACGAATATTCTGACAGAGCAGCCCTTGGAAAG 1719
Db 3097 TGTAATCATGAGTACTCTGAGACTGTACGAATATTCTGACAGAGCAGCCCTTGGAAAG 3156
QY 1720 ACTAGAGAACTCTACCAAGGAGCCCGAGAGAGCTGCTCCTGAGGAGAGAGCCAGAAATGT 1779
Db 3157 ACTAGAGAACTCTACCAAGGAGCCCGAGAGAGCTGCTCCTGAGGAGAGAGCCAGAAATGT 3216
QY 1780 CACTCGGCTTCTACGAACACGAGCTGAGGAGGTCAATACTAGTGGGAAATGAACCT 1839
Db 3217 CACTCGGCTTCTACGAACACGAGCTGAGGAGGTCAATACTAGTGGGAAATGAACCT 3276
QY 1840 GCACCTCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCA 1899
Db 3277 GCACCTCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCA 3336
QY 1900 AGAGGCCACCGATGAGCTGGACCTCAAGCTGCGCCAGCTGAGTGATCAAGGATCCTG 1959
Db 3337 AGAGGCCACCGATGAGCTGGACCTCAAGCTGCGCCAGCTGAGTGATCAAGGATCCTG 3396
QY 1960 GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAACTCAAGGC 2019
Db 3397 GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACTCGAGAACTCAAGGC 3456
QY 2020 ACTTCGAGGAGAAATTCGCTCTGAAAGAGAACGTGAGCCACGTCATGACCTGCTGCTG 2079
Db 3457 ACTTCGAGGAGAAATTCGCTCTGAAAGAGAACGTGAGCCACGTCATGACCTGCTGCTG 3516
QY 2080 CCAGCTTACCATTGCGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 2139
Db 3517 CCAGCTTACCATTGCGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 3576
QY 2140 GRACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCCGAGTCAGGCAGCTGCATGA 2199

Db 3577 GAACACCAGATGGAAGCTTCTGCAGGTGCCGTCGAGGACCGAGTCAGGAGCTGCATGA 3636
QY 2200 AGCCCAAGAGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTGTCAGGGTCC 2259
Db 3637 AGCCCAAGAGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTGTCAGGGTCC 3696
QY 2260 CTGGGAGAGAGCCATCTCGCCCAACAAAGTGCCTACTATATCAACCAACGAGACTCAAC 2319
Db 3697 CTGGGAGAGAGCCATCTCGCCCAACAAAGTGCCTACTATATCAACCAACGAGACTCAAC 3756
QY 2320 AACTTGCTGGGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATAA 2379
Db 3757 AACTTGCTGGGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATAA 3816
QY 2380 TGTCAAGATCTCAGCTTATAGGACTGCCATGAACCTCCGAAAGACTGCAGAAGGCCCTTTG 2439
Db 3817 TGTCAAGATCTCAGCTTATAGGACTGCCATGAACCTCCGAAAGACTGCAGAAGGCCCTTTG 3876
QY 2440 CTTGGATCTCTTGAGCCTGTGACGTGTCAGTGCATGTGATGCCCTTGGACCAGCACACCTCAAGCA 2499
Db 3877 CTTGGATCTCTTGAGCCTGTGACGTGTCAGTGCATGTGATGCCCTTGGACCAGCACACCTCAAGCA 3936
QY 2500 AAATGACCAGCCCATGGATATCCTGAGATTAATGTTTACCACACTATTATGACCG 2559
Db 3937 AAATGACCAGCCCATGGATATCCTGAGATTAATGTTTACCACACTATTATGACCG 3996
QY 2560 CTTGGAGCAAGAGCACAAATTTGGTCAACGTCCTCTCTGCTGGATATGTGCTGAA 2619
Db 3997 CTTGGAGCAAGAGCACAAATTTGGTCAACGTCCTCTCTGCTGGATATGTGCTGAA 4056
QY 2620 CTTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTCCTGCTGCTTTAA 2679
Db 4057 CTTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTCCTGCTGCTTTAA 4116
QY 2680 AACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTCAA 2739
Db 4117 AACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTCAA 4176
QY 2740 GCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGGAGGCTGGGCTCCTTCTGCATGA 2799
Db 4177 GCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGGAGGCTGGGCTCCTTCTGCATGA 4236
QY 2800 TTCTATCCAAATTTCCAAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGCAGTAACATTGA 2859
Db 4237 TTCTATCCAAATTTCCAAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGCAGTAACATTGA 4296
QY 2860 GC 2861
Db 4297 GC 4298

RESULT 7
US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match		94.7%;	Score 2710;	DB 12;	Length 4990;
Best Local Similarity		95.3%;	Pred. No. 0;		
Matches 2861;		Conservative	0;	Mismatches	0;
				Indels	141;
				Gaps	1;
QY	1	GCACAGCCTATTGTGACTGGAAATAGTGTGGTTGCCAGCAGTCCAGCCACACACACGACTGGA	60		
Db	1321	GCACAGCCTATTGTGACTGGAAATAGTGTGGTTGCCAGCAGTCCAGCCACACACACGACTGGA	1380		
QY	61	ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA	120		
Db	1381	ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA	1440		
QY	121	TGTTGATACCACCTATCCAGATAAGAAAGTCCATCTTAATGTACATCACATCACTCTTCCA	180		
Db	1441	TGTTGATACCACCTATCCAGATAAGAAAGTCCATCTTAATGTACATCACATCACTCTTCCA	1500		
QY	181	AGTTTGCCTCAACAAGTGAGCATTTGAAGCCATCCAGGAAGTGGAAATGTTGCCAAGGOC	240		
Db	1501	AGTTTGCCTCAACAAGTGAGCATTTGAAGCCATCCAGGAAGTGGAAATGTTGCCAAGGOC	1560		
QY	241	ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTACATCATCAAAATGCATTTCTCAACA	300		
Db	1561	ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTACATCATCAAAATGCATTTCTCAACA	1620		
QY	301	GATCACGGTCAGTCTAGCACACAGGATATGAGAGAACTTCTTCCCCTAAGCCTCGATTCAA	360		
Db	1621	GATCACGGTCAGTCTAGCACACAGGATATGAGAGAACTTCTTCCCCTAAGCCTCGATTCAA	1680		
QY	361	GAGTATGCCCTACACACAGGCTGCTTATGTCAACCACCTCTGACCCCTACACGGAGCCCAAT	420		
Db	1681	GAGTATGCCCTACACACAGGCTGCTTATGTCAACCACCTCTGACCCCTACACGGAGCCCAAT	1740		
QY	421	TCCTTCACAGCAATTTGGAAGCTCCTGAAGACAAGTCAATTTGSCAGTTCAATGTAGGAGAG	480		
Db	1741	TCCTTCACAGCAATTTGGAAGCTCCTGAAGACAAGTCAATTTGSCAGTTCAATGTAGGAGAG	1800		
QY	481	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATTAATCGGGCTTCTTTC	540		
Db	1801	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATTAATCGGGCTTCTTTC	1860		
QY	541	TGCTGAGGACACATTCGAAGCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA	600		
Db	1861	TGCTGAGGACACATTCGAAGCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA	1920		
QY	601	CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGSCCGGTTGG	660		
Db	1921	CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGSCCGGTTGG	1980		
QY	661	TAATATCTACAATTTGGGAAGTAAGCTGATTGGAACAGGAAATATATCAGRAGATGAAGA	720		
Db	1981	TAATATCTACAATTTGGGAAGTAAGCTGATTGGAACAGGAAATATATCAGRAGATGAAGA	2040		
QY	721	AACCTGAAGTACAAGACAGATGAATCTCCTAAATTCAGATGGGAATGCCCTCAGGTTAGC	780		
Db	2041	AACCTGAAGTACAAGACAGATGAATCTCCTAAATTCAGATGGGAATGCCCTCAGGTTAGC	2100		
QY	781	TAGCATGGAAAAACAAGCAATTACATAGATTTTAATGGATCTCCAGAAATCAGAAACT	840		
Db	2101	TAGCATGGAAAAACAAGCAATTACATAGATTTTAATGGATCTCCAGAAATCAGAAACT	2160		
QY	841	GAAAGAGTTGAATGACTGGCTTAACAAAAACAGAAAGAAAGAAAGGAAATGGAGGAAGA	900		
Db	2161	GAAAGAGTTGAATGACTGGCTTAACAAAAACAGAAAGAAAGAAAGGAAATGGAGGAAGA	2220		
QY	901	GCCTCTTGGACCTGATCTTGAAGACCTAAAACGCCAAGTACACAAATAGGTGCTTCA	960		
Db	2221	GCCTCTTGGACCTGATCTTGAAGACCTAAAACGCCAAGTACACAAATAGGTGCTTCA	2280		
QY	961	AGAAGATCTAGAACAAAGCAAGTCAGGGTCAATTTCTCTCACTACATGGTGGTGTAGT	1020		
Db	2281	AGAAGATCTAGAACAAAGCAAGTCAGGGTCAATTTCTCTCACTACATGGTGGTGTAGT	2340		
QY	1021	TGATGAATCTAGTGGAGATCACGGCAACTGCTGCTTTGGAAGAACTTAAGGTATTGGG	1080		

Db	2341	TGATGAATCTAGTGGAGATCACGCAACTGCTGTCTTGGAAAGAACAACTAAGGTATTGGG	2400		
QY	1081	AGATCGATGGGCAAAACATCTGTAGATGGACAGAAGACCGCTGGTCTTTTACAAGAC--	1138		
Db	2401	AGATCGATGGGCAAAACATCTGTAGATGGACAGAAGACCGCTGGTCTTTTACAAGACCA	2460		
QY	1139	-----	1138		
Db	2461	GCTGACCTAGCTCTCTGGACTGACCACCTATTGGAGCCTCTCTACTCAGACTGTTACTCT	2520		
QY	1139	-----	1138		
Db	2521	GGTGACACAACTGTGGTTACTAAGGAACCTGCCATCTCCAAACTAGAAATGCCATCTTC	2580		
QY	1139	-----ACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAA	1179		
Db	2581	CTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAA	2640		
QY	1180	GTTTCTTGCCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCG	1239		
Db	2641	GTTTCTTGCCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCG	2700		
QY	1240	TAAGGAAAGGCTCCTAGAACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA	1299		
Db	2701	TAAGGAAAGGCTCCTAGAACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA	2760		
QY	1300	CCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCACAACTGGATGAAAAACAGCCA	1359		
Db	2761	CCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCACAACTGGATGAAAAACAGCCA	2820		
QY	1360	AAAAATCCTGAGATCCCTGGAAGGTTCCCGATGATGCAGTCTGTACAAAGACGTTTGGGA	1419		
Db	2821	AAAAATCCTGAGATCCCTGGAAGGTTCCCGATGATGCAGTCTGTACAAAGACGTTTGGGA	2880		
QY	1420	TAACATGAACCTCAAGTGGAGTGAACCTTCGSAAGAAAGTCTCTCAACATTAGGTCCCATTT	1479		
Db	2881	TAACATGAACCTCAAGTGGAGTGAACCTTCGSAAGAAAGTCTCTCAACATTAGGTCCCATTT	2940		
QY	1480	GGRAGCCAGTTCTGACCAGTGAAGCGTCTGACACCTTTCTCTGCAGGAACCTTCTGGTGTG	1539		
Db	2941	GGRAGCCAGTTCTGACCAGTGAAGCGTCTGACACCTTTCTCTGCAGGAACCTTCTGGTGTG	3000		
QY	1540	GCTACAGCTGAAAGATGATGAATTAAGCCGCGAGGCCACCTATTGGAGGCGACTTTCAGC	1599		
Db	3001	GCTACAGCTGAAAGATGATGAATTAAGCCGCGAGGCCACCTATTGGAGGCGACTTTCAGC	3060		
QY	1600	AGTTCAGAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTTGAAACTAAAGAAC	1659		
Db	3061	AGTTCAGAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTTGAAACTAAAGAAC	3120		
QY	1660	TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAG	1719		
Db	3121	TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAG	3180		
QY	1720	ACTAGAGAACTCTACAGGAGCCAGAGAGTGCCTCTCTGAGGAGAGAGCCAGAAATGT	1779		
Db	3181	ACTAGAGAACTCTACAGGAGCCAGAGAGTGCCTCTCTGAGGAGAGAGCCAGAAATGT	3240		
QY	1780	CACCTCGGCTTCTACGAAAGCAGCCTGAGGAGTCAATACTGAGTGGGAAAAATTTGAACCT	1839		
Db	3241	CACCTCGGCTTCTACGAAAGCAGCCTGAGGAGTCAATACTGAGTGGGAAAAATTTGAACCT	3300		
QY	1840	GCCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACITCA	1899		
Db	3301	GCCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACITCA	3360		
QY	1900	AGAGCCACGGATGAGCTGGACTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTG	1959		
Db	3361	AGAGCCACGGATGAGCTGGACTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTG	3420		
QY	1960	GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGC	2019		

Db 3421 GCAGCCCGTGGCGCATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAGTCAAGGC 3480
QY 2020 ACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAAACGTTGAGCCACGTCGAATGACCTTGCTCG 2079
Db 3481 ACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAAACGTTGAGCCACGTCGAATGACCTTGCTCG 3540
QY 2080 CCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAAACCTCAGCACTCTGGAAGACCT 2139
Db 3541 CCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAAACCTCAGCACTCTGGAAGACCT 3600
QY 2140 GAACACCAGATGGAAGCTTCTGCGAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 2199
Db 3601 GAACACCAGATGGAAGCTTCTGCGAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 3660
QY 2200 AGCCACACAGGACTTTGGTCCAGCANTCTCAGCACTTTCTTCCACGTCGTCCAGGGTCC 2259
Db 3661 AGCCACACAGGACTTTGGTCCAGCANTCTCAGCACTTTCTTCCACGTCGTCCAGGGTCC 3720
QY 2260 CTGGGAGAGAGCCATCTCGCCAAAACAAAGTGCCTACTATATCAACACGAGACTCAAAAC 2319
Db 3721 CTGGGAGAGAGCCATCTCGCCAAAACAAAGTGCCTACTATATCAACACGAGACTCAAAAC 3780
QY 2320 AACTTGCTGGGACCATTCCGAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAA 2379
Db 3781 AACTTGCTGGGACCATTCCGAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAA 3840
QY 2380 TGTGAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTCGAGAAGGCCCTTTG 2439
Db 3841 TGTGAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTCGAGAAGGCCCTTTG 3900
QY 2440 CTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTGGACCGACGACAAACCTCAAGCA 2499
Db 3901 CTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTGGACCGACGACAAACCTCAAGCA 3960
QY 2500 AAATGACGACCCCATGGATATCCTGCAGATTATTAATGTTTGACCACTATTTATGACCG 2559
Db 3961 AAATGACGACCCCATGGATATCCTGCAGATTATTAATGTTTGACCACTATTTATGACCG 4020
QY 2560 CCTGGAGCAAGAGCACAAATTTGGTCAACGTCCTCTCGGTGGATATGTGCTGAA 2619
Db 4021 CCTGGAGCAAGAGCACAAATTTGGTCAACGTCCTCTCGGTGGATATGTGCTGAA 4080
QY 2620 CTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTCCTCTGCTCTTTAA 2679
Db 4081 CTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTCCTCTGCTCTTTAA 4140
QY 2680 AACTGGCATCATTTCCCTGTGTAAGCAATTTGGAAGACAAAGTACAGATACCTTTTCAA 2739
Db 4141 AACTGGCATCATTTCCCTGTGTAAGCAATTTGGAAGACAAAGTACAGATACCTTTTCAA 4200
QY 2740 GCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCTCCTTCTGCAATGA 2799
Db 4201 GCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCTCCTTCTGCAATGA 4260
QY 2800 TTCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCCATCCTTTGGGGCAGTACATGA 2859
Db 4261 TTCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCCATCCTTTGGGGCAGTACATGA 4320
QY 2860 GC 2861
Db 4321 GC 4322

RESULT 8
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 88.3%; Score 2527; DB 12; Length 4182;
Best Local Similarity 89.8%; Pred.No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 324; Gaps 1;

QY 1 GCCAGACCTATTTGACTGGAATAGTGTGGTTTGGCAGCAGTCAGCCACACACGACTGGA 60
Db 540 GCCAGACCTATTTGACTGGAATAGTGTGGTTTGGCAGCAGTCAGCCACACACGACTGGA 599
QY 61 ACATGCATTCAACATCGCCAGATATCAATAGGATAGAGAACTACTCGATCCTGAAGA 120
Db 600 ACATGCATTCAACATCGCCAGATATCAATAGGATAGAGAACTACTCGATCCTGAAGA 659
QY 121 TGTGTATACCACTATCCAGATAGAAAGTCCATCTTAATGTACATCACATCACTCTTCCA 180
Db 660 TGTGTATACCACTATCCAGATAGAAAGTCCATCTTAATGTACATCACATCACTCTTCCA 719
QY 181 AGTTTGCCTCAACAAGTGAGCAATGAAGCCATCCAGGAAGTGGAAATGTTGCCAAGGCC 240
Db 720 AGTTTGCCTCAACAAGTGAGCAATGAAGCCATCCAGGAAGTGGAAATGTTGCCAAGGCC 779
QY 241 ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTACATCATCAATGCACATATCTCAACA 300
Db 780 ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTACATCATCAATGCACATATCTCAACA 839
QY 301 GATCACGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCCTAAGCCTCGATTCAA 360
Db 840 GATCACGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCCTAAGCCTCGATTCAA 899
QY 361 GAGCTATGCTTACACACAGGCTGCTTATGTACCACTCTGACCCCTACACGAGCCCAT 420
Db 900 GAGCTATGCTTACACACAGGCTGCTTATGTACCACTCTGACCCCTACACGAGCCCAT 959
QY 421 TCCTTACACAGCATTTGGAAGCTCCTGAAGACAAAGTCAATTTGGCAGTTCAATGGAGAG 480
Db 960 TCCTTACACAGCATTTGGAAGCTCCTGAAGACAAAGTCAATTTGGCAGTTCAATGGAGAG 1019
QY 481 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAAGTATTATCGTGGCTTCTTTC 540
Db 1020 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAAGTATTATCGTGGCTTCTTTC 1079
QY 541 TGCTGAGGACACATTTCAAGCACAGGAGAGATTTGACAGCCCATCAGGCGCGGTTGG 600
Db 1080 TGCTGAGGACACATTTCAAGCACAGGAGAGATTTGACAGCCCATCAGGCGCGGTTGG 1139
QY 601 CCAGTTTCATACATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGCGGTTGG 660
Db 1140 CCAGTTTCATACATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGCGGTTGG 1199
QY 661 TAATATTCTACAATTTGGGAAGTAAAGCTGATTGGAAACAGGAAAATTTATCAGAAGATGAAGA 720
Db 1200 TAATATTCTACAATTTGGGAAGTAAAGCTGATTGGAAACAGGAAAATTTATCAGAAGATGAAGA 1259
QY 721 AACTGAAGTACACAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 780
Db 1260 AACTGAAGTACACAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 1319
QY 781 TAGCATGGAAAAACAAAGCAATTTACATAGATTTTAAATGATCTCCAGAAATCAGAAACT 840
Db 1320 TAGCATGGAAAAACAAAGCAATTTACATAGATTTTAAATGATCTCCAGAAATCAGAAACT 1379
QY 841 GAAAGATTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAAAGAAATGGAGGAAGA 900
Db 841 GAAAGATTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAAAGAAATGGAGGAAGA 900

1380	DB	GAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAACAGAGAAAATGGAGGAAGA	1439
901	QY	GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACAATAGGTCCTTCA	960
1440	DB	GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACAATAGGTCCTTCA	1499
961	QY	AGAAGATCTAGAACACRAGAACAAAGTCAGGGTCAATTTCTCTCACTCACATGGTGGTGGTAGT	1020
1500	DB	AGAAGATCTAGAACACRAGAACAAAGTCAGGGTCAATTTCTCTCACTCACATGGTGGTGGTAGT	1559
1021	QY	TGATGAATCTAGTGGAGATCACGCCAACTGCTGCTTTGGGAAGAACAACTTAAGGTATTGGG	1080
1560	DB	TGATGAATCTAGTGGAGATCACGCCAACTGCTGCTTTGGGAAGAACAACTTAAGGTATTGGG	1619
1081	QY	AGATCGATGGGCAACATCTGTAGATGGACAGAACGCCGCTGGGTCTTTTACAAAGAC--	1138
1620	DB	AGATCGATGGGCAACATCTGTAGATGGACAGAACGCCGCTGGGTCTTTTACAAAGACAT	1679
1139	QY	-----	1138
1680	DB	CCCTTCACAAATGGCAACGCTTACTGAAGAACAGTGCCTTTTTAGTGCATGGCTTTCAGA	1739
1139	QY	-----	1138
1740	DB	AAAAGAAGATGCAGTGAACAAGATTTCACACAACCTGGCTTTAAAGATCAAAATGAAATGTT	1799
1139	QY	-----	1138
1800	DB	ATCAAGTCTTCAAAAACCTGGCCGTTTAAAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT	1859
1139	QY	-----	1138
1860	DB	GGGCAACCTGTATTCACCTCAACAAGATCTCTTTTCAACACTGAAGAATAAGTCAGTGAC	1919
1139	QY	-----	1138
1920	DB	CCAGAAGACGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAAA	1979
1139	QY	-----ACTCATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGA	1176
1980	DB	ACTTGAAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGA	2039
1177	QY	AAAGTTTCTGCTGGCTTACAGAAGCTCAAAACAACTGCCAATGTCTTACAGGATGCTAC	1236
2040	DB	AAAGTTTCTGCTGGCTTACAGAAGCTGAAAACAACCTGCCAATGTCTTACAGGATGCTAC	2099
1237	QY	CCGTAAGGAAAGGCTCCTAGAAGACTCCAAAGGAGTAAAAGAGCTGATGAAAACAATGGCA	1296
2100	DB	CCGTAAGGAAAGGCTCCTAGAAGACTCCAAAGGAGTAAAAGAGCTGATGAAAACAATGGCA	2159
1297	QY	AGACCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAACAG	1356
2160	DB	AGACCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAACAG	2219
1357	QY	CCAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAAGACGTTT	1416
2220	DB	CCAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAAGACGTTT	2279
1417	QY	GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGA AAAAGTCTCTCAACATTAGGTCCTCA	1476
2280	DB	GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGA AAAAGTCTCTCAACATTAGGTCCTCA	2339
1477	QY	TTTGGAGCCAGTTCGTACAGTGGAGCGTCTGCACCTTTCTCTGCAGAACCTTCTGGT	1536
2340	DB	TTTGGAGCCAGTTCGTACAGTGGAGCGTCTGCACCTTTCTCTGCAGAACCTTCTGGT	2399
1537	QY	GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGCGGACTTTCC	1596
2400	DB	GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGCGGACTTTCC	2459
1597	QY	ACCAGTTCAAGACAGAACGATGTACATAGGCTTCAAGAGGGGAATTGAAAACTAAAGA	1656
2460	DB	ASCAGTTCAAGACAGAACGATGTACATAGGCTTCAAGAGGGGAATTGAAAACTAAAGA	2519

QY	1657	ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTTGACAGAGCAGCCTTTGGAA	1711
Db	2520	ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTTGACAGAGCAGCCTTTGGAA	2579
QY	1717	AGGACTAGAGAAACTCTACAGAGGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGCCACGAA	1776
Db	2580	AGGACTAGAGAAACTCTACAGAGGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGCCACGAA	2639
QY	1777	TGTCACCTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAA	1836
Db	2640	TGTCACCTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAA	2699
QY	1837	CCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAAC	1896
Db	2700	CCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAAC	2759
QY	1897	TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATC	1956
Db	2760	TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATC	2819
QY	1957	CTGGCAGCCGCTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAA	2016
Db	2820	CTGGCAGCCGCTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAA	2879
QY	2017	GGCACTTCGAGGAGAAAAATTGGCCCTCTGAAAGAGAAACGTGAGCCACGTCAATGACCTTGC	2076
Db	2880	GGCACTTCGAGGAGAAAAATTGGCCCTCTGAAAGAGAAACGTGAGCCACGTCAATGACCTTGC	2939
QY	2077	TCGCCAGCTTACCACCTTTGGSCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGA	2136
Db	2940	TCGCCAGCTTACCACCTTTGGSCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGA	2999
QY	2137	CCTGAACACCCAGATGGAAGCTTCTGCAGGTGSCCGTCGAGGACCGAGTCAGCAGCTGCA	2196
Db	3000	CCTGAACACCCAGATGGAAGCTTCTGCAGGTGSCCGTCGAGGACCGAGTCAGCAGCTGCA	3059
QY	2197	TGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACATTTCCTTCCACGTCTGTCCAGGG	2256
Db	3060	TGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACATTTCCTTCCACGTCTGTCCAGGG	3119
QY	2257	TCCTCTGGAGAGAGCCATCTGCCAAACAAAGTGCCTACTATATCAACACGAGACTCA	2316
Db	3120	TCCTCTGGAGAGAGCCATCTGCCAAACAAAGTGCCTACTATATCAACACGAGACTCA	3179
QY	2317	AACAACTTGTGGGACCATCCCAAAAATGACAGAGCTCTACCACTTTTAGCTGACCTGAA	2376
Db	3180	AACAACTTGTGGGACCATCCCAAAAATGACAGAGCTCTACCACTTTTAGCTGACCTGAA	3239
QY	2377	TAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCT	2436
Db	3240	TAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCT	3299
QY	2437	TTGCTTGGATCTCTTGAGCCTGTCAGCTGCATGTGATGCCTTGACCAGCACAAACCTCAA	2496
Db	3300	TTGCTTGGATCTCTTGAGCCTGTCAGCTGCATGTGATGCCTTGACCAGCACAAACCTCAA	3359
QY	2497	GCAAAATGACCAGCCCATGGATATCCTGCAGATTATTAATTGTTGACCACCTATTATGA	2556
Db	3360	GCAAAATGACCAGCCCATGGATATCCTGCAGATTATTAATTGTTGACCACCTATTATGA	3419
QY	2557	CCGCTTGGAGCAAGAGCACAAACATTTGGTCAACGTCCCTCTCTGCGTGGATATGTGTCT	2616
Db	3420	CCGCTTGGAGCAAGAGCACAAACATTTGGTCAACGTCCCTCTCTGCGTGGATATGTGTCT	3479
QY	2617	GAACTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTGCTGCTCTTT	2676
Db	3480	GAACTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTGCTGCTCTTT	3539
QY	2677	TAAACTGGCATCTATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACCTTTT	2736
Db	3540	TAAACTGGCATCTATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACCTTTT	3599

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QY 2737 CAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCTCCTTCTGCA 2796
|||||
Db 3600 CAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCTCCTTCTGCA 3659
|||||
QY 2797 TGATTCTATCCAAATTCCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGCAGTAACAT 2856
|||||
Db 3660 TGATTCTATCCAAATTCCAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGGCAGTAACAT 3719
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QY 2857 TGAGC 2861
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Db 3720 TGAGC 3724

RESULT 9
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 88.3%; Score 2527; DB 12; Length 5149;
Best Local Similarity 89.8%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 324; Gaps 1;

QY 1 GCCAGACCTATTGTGACTGGAATAGTGTGGTTGCCAGCAGTCAGCCACACAACGACTGGA 60
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Db 1297 GCCAGACCTATTGTGACTGGAATAGTGTGGTTGCCAGCAGTCAGCCACACAACGACTGGA 1356
|||||
QY 61 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAACTACTCGATCCTGAAGA 120
|||||
Db 1357 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAACTACTCGATCCTGAAGA 1416
|||||
QY 121 TGTGTATACCAACCTATCCAGATAAGAAGTCCATCTTAATGTACATCACAATCCTTCCA 180
|||||
Db 1417 TGTGTATACCAACCTATCCAGATAAGAAGTCCATCTTAATGTACATCACAATCCTTCCA 1476
|||||
QY 181 AGTTTGGCTCAACAAGTGAGCATTGAAGCCATCCAGGAAGTGGAATGTTGCCAAGGCC 240
|||||
Db 1477 AGTTTGGCTCAACAAGTGAGCATTGAAGCCATCCAGGAAGTGGAATGTTGCCAAGGCC 1536
|||||
QY 241 ACCTAAAGTGACTAAAGAAGACATTTTCAGTTACATCATCAATGCATATTCTCAACA 300
|||||
Db 1537 ACCTAAAGTGACTAAAGAAGACATTTTCAGTTACATCATCAATGCATATTCTCAACA 1596
|||||
QY 301 GATCACGGTCACTAGTACACAGGCTGCTTATGTACCAACCTCTGACCCCTACAGGAGCCCAT 420
|||||
Db 1597 GATCACGGTCACTAGTACACAGGCTGCTTATGTACCAACCTCTGACCCCTACAGGAGCCCAT 1716
|||||
QY 421 TCCITCACAGCATTTGGAAGCTCTGAAGACAGTCAATTTGGCAGTTTCATGATGGAGAG 480
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Db 1717 TCCITCACAGCATTTGGAAGCTCTGAAGACAGTCAATTTGGCAGTTTCATGATGGAGAG 1776
|||||
QY 481 TGAAGTAAACCTGACCGGTTATCAAAACAGCTTTAGAAGAGTATTATCGTGGCTTCTTTC 540
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Db 1777 TGAAGTAAACCTGACCGGTTATCAAAACAGCTTTAGAAGAGTATTATCGTGGCTTCTTTC 1836
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QY 541 TGCTGAGGACACATTGCAAGCACAAAGGAGAGAGATTTCCTAATGATGTGGAAGTGGTGAAGA 600
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Db 1837 TGCTGAGGACACATTGCAAGCACAAAGGAGAGAGATTTCCTAATGATGTGGAAGTGGTGAAGA 1896
|||||
QY 601 CCAGTTTCTACTACTGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGGTTGG 660
|||||
Db 1897 CCAGTTTCTACTACTGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGGTTGG 1956
|||||
QY 661 TAATATTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGAAATTTATCAGAAGATGAAGA 720
|||||
Db 1957 TAATATTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGAAATTTATCAGAAGATGAAGA 2016
|||||
QY 721 AACTGAAGTACAAGACGACATGAATCTCCTAAATTTCAAGATGGGAATGCCTCAGGGTAGC 780
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Db 2017 AACTGAAGTACAAGACGACATGAATCTCCTAAATTTCAAGATGGGAATGCCTCAGGGTAGC 2076
|||||
QY 781 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTTHAATGGATCTCCAGAATCAGAAACT 840
|||||
Db 2077 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTTHAATGGATCTCCAGAATCAGAAACT 2136
|||||
QY 841 GAAAGAGTTGAATGACTGGCTAAACAAACAGAGAAGAAACAAGGAAAAATGGAGGAAGA 900
|||||
Db 2137 GAAAGAGTTGAATGACTGGCTAAACAAACAGAGAAGAAACAAGGAAAAATGGAGGAAGA 2196
|||||
QY 901 GCCTCTTGGACCTGATCTTGAAGACCTTAAAAACGCCAAGTACAACAACATAAAGGTGCTCA 960
|||||
Db 2197 GCCTCTTGGACCTGATCTTGAAGACCTTAAAAACGCCAAGTACAACAACATAAAGGTGCTCA 2256
|||||
QY 961 AGAAGATCTAGAACAAGAACAGTCAAGGTCAATTTCTCACTCAGATGGTGGTGGTAGT 1020
|||||
Db 2257 AGAAGATCTAGAACAAGAACAGTCAAGGTCAATTTCTCACTCAGATGGTGGTGGTAGT 2316
|||||
QY 1021 TGATGAATCTAGTGGAGATCAGCCAACTGCTGCTTTTGGGAAGAACAACTTAAGGTATTGG 1080
|||||
Db 2317 TGATGAATCTAGTGGAGATCAGCCAACTGCTGCTTTTGGGAAGAACAACTTAAGGTATTGG 2376
|||||
QY 1081 AGATCGATGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGAC-- 1138
|||||
Db 2377 AGATCGATGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGACAT 2436
|||||
QY 1139 ----- 1138
Db 2437 CCTTCTCAAATGGCAACGCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTCAGA 2496
|||||
QY 1139 ----- 1138
Db 2497 AAAAGAAGATGCAGTGAACAAGATTTCACAACTGGCTTTAAAGATCAAAATGAATGTT 2556
|||||
QY 1139 ----- 1138
Db 2557 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAAAGCGGATCTAGAAAAGAAAAAGCAATCCAT 2616
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QY 1139 ----- 1138
Db 2617 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTCAACACTGAAGAATAAGTCAGTGAC 2676
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QY 1139 ----- 1138
Db 2677 CCAGAAGACCGAAGCATGGCTGGATAACTTTGCCCGGTGTGGGATTAATTTAGTCCAAA 2736
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QY 1139 ----- ACTATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGA 1176
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Db 2737 ACTTGAAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGA 2796
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QY 1177 AAAGTTTCTTGCCTGGCTTACAGAAGCTCAAAACAACCTGCCAATGTCTACAGGATGCTAC 1236
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Db 2797 AAAGTTTCTTGCCTGGCTTACAGAAGCTCAAAACAACCTGCCAATGTCTACAGGATGCTAC 2856
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QY 1237 CCGTAAGGAAAGGCTCCTAGAAGACTCCAAAGGGAGTAAAAGAGCTGATGAACAATGGCA 1296
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Db 2857 CCGTAAGGAAAGGCTCCTAGAAGACTCCAAAGGGAGTAAAAGAGCTGATGAACAATGGCA 2916
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QY 1297 AGACCTCCAAAGGTGAATGAAGCTCACACAGATGTTTATACAACTGGATGAAACAG 1356
Db 2917 AGACCTCCAAAGGTGAATGAAGCTCACACAGATGTTTATACAACTGGATGAAACAG 2976
QY 1357 CCAAAAAATCCTGAGATCCCTGGAAGTCCGATGATGCAGTCCCTGTTACAAAGACGTTT 1416
Db 2977 CCAAAAAATCCTGAGATCCCTGGAAGTCCGATGATGCAGTCCCTGTTACAAAGACGTTT 3036
QY 1417 GSATAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCA 1476
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QY 1477 TTTGGAAGCCAGTTCTGACAGTGGAAAGCTCTGACCTTTCTCTGAGGAACTTCTGGT 1536
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QY 1537 GTGGCTACAGTGAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTCC 1596
Db 3157 GTGGCTACAGTGAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTCC 3216
QY 1597 AGCAGTTCAAGACGAGAACCATGTACATAGGGCCCTTCAGAGGGGAATTGAACCTAAAGA 1656
Db 3217 AGCAGTTCAAGACGAGAACCATGTACATAGGGCCCTTCAGAGGGGAATTGAACCTAAAGA 3276
QY 1657 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTTGACAGACGACCTTTGGA 1716
Db 3277 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTTGACAGACGACCTTTGGA 3336
QY 1717 AGGACTAGAGAAACTCTACAGGAGCCCGAGAGAGCTGCTCCTGAGGAGAGAGCCAGAA 1776
Db 3337 AGGACTAGAGAAACTCTACAGGAGCCCGAGAGAGCTGCTCCTGAGGAGAGAGCCAGAA 3396
QY 1777 TPTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAA 1836
Db 3397 TPTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAA 3456
QY 1837 CCTGCACCTCCGCTGACTGGCAGAGAAATAATAGATGAGACCCCTTGAAAGACTCCAGGAAC 1896
Db 3457 CCTGCACCTCCGCTGACTGGCAGAGAAATAATAGATGAGACCCCTTGAAAGACTCCAGGACT 3516
QY 1897 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATC 1956
Db 3517 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATC 3576
QY 1957 CTGCGAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 2016
Db 3577 CTGCGAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 3636
QY 2017 GGCATTCGAGGAGAAATTCGCTCTGAAAGAGAACGTCAGCCACGTCGAATGACCTTGC 2076
Db 3637 GGCATTCGAGGAGAAATTCGCTCTGAAAGAGAACGTCAGCCACGTCGAATGACCTTGC 3696
QY 2077 TCGCAGCTTACCACTTTGGGATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGA 2136
Db 3697 TCGCAGCTTACCACTTTGGGATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGA 3756
QY 2137 CCTGAAACACCATGGAAGCTTTGTCAGGTGGCGCTCGAGGACCGAGTCAGGCTGCA 2196
Db 3757 CCTGAAACACCATGGAAGCTTTGTCAGGTGGCGCTCGAGGACCGAGTCAGGCTGCA 3816
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Db 3817 TGAAGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTCTGCCAGG 3876
QY 2257 TCCCTGGGAGAGGCACTCTCGCAAAACAAAGTCCCTACTATATCAACACGAGACTCA 2316
Db 3877 TCCCTGGGAGAGGCACTCTCGCAAAACAAAGTCCCTACTATATCAACACGAGACTCA 3936
QY 2317 AACAACTGTGGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTTAGCTGACCTGAA 2376
Db 3937 AACAACTGTGGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTTAGCTGACCTGAA 3996
QY 2377 TAATGTCAGATTCTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGCGAGAAGGCCCT 2436

Db 3997 TAATGTCAGATTCTCAGCTTATAGACTGCCATGAACCTCCGAAGACTGCGAGAAGCCCT 4056
QY 2437 TTGCTTGGATCTCTGAGCCCTGTGAGCTGCATGATGCCCTTGGACCAAGCAACCTCAA 2496
Db 4057 TTGCTTGGATCTCTGAGCCCTGTGAGCTGCATGATGCCCTTGGACCAAGCAACCTCAA 4116
QY 2497 GCAAAATGACCAGCCCATGGATATCCTGCAGATATTAATGCTTTGACCACTATTTATGA 2556
Db 4117 GCAAAATGACCAGCCCATGGATATCCTGCAGATATTAATGCTTTGACCACTATTTATGA 4176
QY 2557 CCGCCTGGAGCAAGACACAATTTGGTCAACGTCCTCTCTGCGTGGATATGTGCT 2616
Db 4177 CCGCCTGGAGCAAGACACAATTTGGTCAACGTCCTCTCTGCGTGGATATGTGCT 4236
QY 2617 GAACCTGCTGCTGAATGTTTATGATAGGGGACGAGGAGGATCCGTCCTGCTCTTT 2676
Db 4237 GAACCTGCTGCTGAATGTTTATGATAGGGGACGAGGAGGATCCGTCCTGCTCTTT 4296
QY 2677 TAAACCTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAAGACAGATACAGTACCTTTT 2736
Db 4297 TAAACCTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAAGACAGATACAGTACCTTTT 4356
QY 2737 CAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCAGCGCAGGCTGGGCTCCTCTGCA 2796
Db 4357 CAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCAGCGCAGGCTGGGCTCCTCTGCA 4416
QY 2797 TGATTTCTATCCAAATTTCCAAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAACAT 2856
Db 4417 TGATTTCTATCCAAATTTCCAAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAACAT 4476
QY 2857 TGAGC 2861
Db 4477 TGAGC 4481

RESULT 10

US-09-845-416-10

; Sequence 10, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 10

; LENGTH: 3531

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-10

Query Match 76.8%; Score 2197; DB 12; Length 3531;

Best Local Similarity 88.6%; Pred. No. 0;

Matches 2534; Conservative 0; Mismatches 0; Indels 327; Gaps 1;

QY 1 GCCAGACCTATTGACTGGAATAGTGTGGTTGCCAGAGTCAGCCACACAAACGACTGGA 60

Db 540 GCCAGACCTATTGACTGGAATAGTGTGGTTGCCAGAGTCAGCCACACAAACGACTGGA 599

QY 61 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA 120

Db 600 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAAACTACTCGATCCTGAAGA 659

QY 121 TGTGTATACCACTATCCAGATAAGAAGTCCATCTTATGTACATCACATCACTCTCCA 180

Db 660 TGTGTATACCACTATCCAGATAAGAAGTCCATCTTATGTACATCACATCACTCTCCA 719

QY 181 AGTTTGGCTCAACAAGTGAAGCATTAAGCCATCCAGGAAGTGGAATGTTGCCAAGGCC 240
Db 720 AGTTTGGCTCAACAAGTGAAGCATTAAGCCATCCAGGAAGTGGAATGTTGCCAAGGCC 779
QY 241 ACCTAAAGTGAAGTAAAGAAAGACATTTTCAGTTTACATCATCAATGCACACTATCTCAACA 300
Db 780 ACCTAAAGTGAAGTAAAGAAAGACATTTTCAGTTTACATCATCAATGCACACTATCTCAACA 839
QY 301 GATCACGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCTTAAGCCTCGATTCAA 360
Db 840 GATCACGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCTTAAGCCTCGATTCAA 899
QY 361 GAGCTATGCCTACACACAGGCTGCTTATGTCAACACCTCTGACCTTACACGGAGCCCAT 420
Db 900 GAGCTATGCCTACACACAGGCTGCTTATGTCAACACCTCTGACCTTACACGGAGCCCAT 959
QY 421 TCCTTTCACAGCATTTGGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTTCATTTGATGGAGAG 480
Db 960 TCCTTTCACAGCATTTGGGAAGCTCCTGAAGACAAAGTCATTTGGCAGTTTCATTTGATGGAGAG 1019
QY 481 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTGAAGAAGTATATCGTGGCTCTTTTC 540
Db 1020 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTGAAGAAGTATATCGTGGCTCTTTTC 1079
QY 541 TGCTGAGGACACATTTGCAAGCACAGGAGAGATTTCTAATGATGTGGAAGTGGTCAAAGA 600
Db 1080 TGCTGAGGACACATTTGCAAGCACAGGAGAGATTTCTAATGATGTGGAAGTGGTCAAAGA 1139
QY 601 CCAGTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGTTGG 660
Db 1140 CCAGTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGTTGG 1199
QY 661 TAATATTCTACAATTTGGAAGTAAGCTGATTGGAACAGGAAATATATCAGAAGATGAAGA 720
Db 1200 TAATATTCTACAATTTGGAAGTAAGCTGATTGGAACAGGAAATATATCAGAAGATGAAGA 1259
QY 721 AACTGAAGTACAAAGAGCAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 780
Db 1260 AACTGAAGTACAAAGAGCAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGGTAGC 1319
QY 781 TAGCATGGAAAAACAACCAATTTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT 840
Db 1320 TAGCATGGAAAAACAACCAATTTTACATAGA----- 1350
QY 841 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACAGGAAATGAGAGGAAGA 900
Db 1351 ----- 1350
QY 901 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATAAGGTGCTTCA 960
Db 1351 ----- 1350
QY 961 AGAAGATCTAGAACAAGAACAAAGTCAAGGGTCAATCTCTACATCACATGGTGGGTAGT 1020
Db 1351 ----- 1350
QY 1021 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 1080
Db 1351 ----- 1350
QY 1081 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGACAC 1140
Db 1351 -----AC 1352
QY 1141 TCATAGATTACTGCAACAGTCCCTGGACCTGGAAAAGTTTCTTGGCTGGCTTACAGA 1200
Db 1353 TCATAGATTACTGCAACAGTCCCTGGACCTGGAAAAGTTTCTTGGCTGGCTTACAGA 1412
QY 1201 AGCTGAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGA 1260
Db 1413 AGCTGAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGA 1472
QY 1261 CTCCAAGGGAGTAAAGAGCTGTATGAACAATGGCAAGACCTCCAGAGGTGAATGAAGC 1320

Db 1473 CTCCAAGGGAGTAAAAAGAGCTGATGAACAATGGCAAGACCTCCAAGTGAATTTGAAGC 1532
QY 1321 TCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGATCCCTGGA 1380
Db 1533 TCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGATCCCTGGA 1592
QY 1381 AGGTTCCGATGATGCAGTCCCTGTTACAAAAGACGTTTGGATAACATGAACCTCAAGTGGAG 1440
Db 1593 AGGTTCCGATGATGCAGTCCCTGTTACAAAAGACGTTTGGATAACATGAACCTCAAGTGGAG 1652
QY 1441 TGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTTGACCAGTG 1500
Db 1653 TGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCTTGACCAGTG 1712
QY 1501 GAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAAGATGATGA 1560
Db 1713 GAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAAGATGATGA 1772
QY 1561 ATTAAGCCCGGCGAGCACCTATTGGAGGCGGACTTTCCAGCAGTTTCAGAGCAGAGAACGATGT 1620
Db 1773 ATTAAGCCCGGCGAGCACCTATTGGAGGCGGACTTTCCAGCAGTTTCAGAGCAGAGAACGATGT 1832
QY 1621 ACATAGGGCCCTTCAAGAGGGGAATTGAAAACCTTAAAGAACCTGTAAATCATCAGTACTCTTGA 1680
Db 1833 ACATAGGGCCCTTCAAGAGGGGAATTGAAAACCTTAAAGAACCTGTAAATCATCAGTACTCTTGA 1892
QY 1681 GACTGTACGAATATTTCTGCACAGAGCAGCCCTTTGGAAGGACTAGAGAACTCTACCAGGA 1740
Db 1893 GACTGTACGAATATTTCTGCACAGAGCAGCCCTTTGGAAGGACTAGAGAACTCTACCAGGA 1952
QY 1741 GCCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAGAAATGTCACTCGGCTTCTACGAAAGCA 1800
Db 1953 GCCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAGAAATGTCACTCGGCTTCTACGAAAGCA 2012
QY 1801 GGCTGAGGAGGTCAATACTAGTGGGAAAAATGAACTTCACCTCCGCTGACTGGCAGAG 1860
Db 2013 GGCTGAGGAGGTCAATACTAGTGGGAAAAATGAACTTCACCTCCGCTGACTGGCAGAG 2072
QY 1861 AAAAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCACGATGAGCTGGA 1920
Db 2073 AAAAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCACGATGAGCTGGA 2132
QY 1921 CCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCCT 1980
Db 2133 CCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCCT 2192
QY 1981 CATTTGACTCTCTCCAAGATCACTCGAGAAACTCAAGGCACCTTCGAGGAGAAATTTGGCC 2040
Db 2193 CATTTGACTCTCTCCAAGATCACTCGAGAAACTCAAGGCACCTTCGAGGAGAAATTTGGCC 2252
QY 2041 TCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGTCTGCCAGCTTACCACCTTTGGGCAT 2100
Db 2253 TCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGTCTGCCAGCTTACCACCTTTGGGCAT 2312
QY 2101 TCAGTCTCAACCGTATAAOCCTGAGCAGCTCTGGAAGACCTGGAACACACAGATGGAAGCTCT 2160
Db 2313 TCAGTCTCAACCGTATAAOCCTGAGCAGCTCTGGAAGACCTGGAACACACAGATGGAAGCTCT 2372
QY 2161 GCAGTGGCCGTCGAGGACCGAGTCAGGCAGTGCATGAGCCCAACAGGACCTTTGGTCC 2220
Db 2373 GCAGTGGCCGTCGAGGACCGAGTCAGGCAGTGCATGAGCCCAACAGGACCTTTGGTCC 2432
QY 2221 AGCATCTCAGCACCTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 2280
Db 2433 AGCATCTCAGCACCTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 2492
QY 2281 AAACAAAGTGCCCTACTATATCAACCCACGAGACTCAACAACTTGTGGGACCATCCCAA 2340
Db 2493 AAACAAAGTGCCCTACTATATCAACCCACGAGACTCAACAACTTGTGGGACCATCCCAA 2552
QY 2341 AATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTGAGATTCAGATTCAGCTTATAG 2400

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Db      2553 AATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAG 2612
QY      2401 GACTGCCATGAAGAACTCCGAAGACTGCGAAGGCCCTTTGCTTGATCTCTTGAGCCCTGTC 2460
Db      2613 GACTGCCATGAAGAACTCCGAAGACTGCGAAGGCCCTTTGCTTGATCTCTTGAGCCCTGTC 2672
QY      2461 AGCTGCATGTGATGCTTGACCAAGCAGCAACCTCAAGCAAAATGACCAAGCCCATGGATAT 2520
Db      2673 AGCTGCATGTGATGCTTGACCAAGCAGCAACCTCAAGCAAAATGACCAAGCCCATGGATAT 2732
QY      2521 CCTGCAGATTATTAAATTTGTTGACCACTATTATTGACCCGCTTGAGCAAGAGCACAACAA 2580
Db      2733 CCTGCAGATTATTAAATTTGTTGACCACTATTATTGACCCGCTTGAGCAAGAGCACAACAA 2792
QY      2581 TTTGGTCAACGTCCTCTCTGCTGCGTGGGATATGTGCTGAACCTGGCTGCTGAATGTTTATGA 2640
Db      2793 TTTGGTCAACGTCCTCTCTGCTGCGTGGGATATGTGCTGAACCTGGCTGCTGAATGTTTATGA 2852
QY      2641 TACGGGACGAACAGGAGGATCCGTGCTCTGCTCTTTTAAACTGGCATCATTTCCCTGTG 2700
Db      2853 TACGGGACGAACAGGAGGATCCGTGCTCTGCTCTTTTAAACTGGCATCATTTCCCTGTG 2912
QY      2701 TAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACACAGG 2760
Db      2913 TAAAGCACATTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACACAGG 2972
QY      2761 ATTTGTGACCAAGCGAGGCTGGGCTCTCTGCTGATGATTTCTATCCAAATTCCAAAGACA 2820
Db      2973 ATTTGTGACCAAGCGAGGCTGGGCTCTCTGCTGATGATTTCTATCCAAATTCCAAAGACA 3032
QY      2821 GTTGGTGGAAGTTGCATCCTTTGGGGCAGTAACATFTGAGC 2861
Db      3033 GTTGGTGGAAGTTGCATCCTTTGGGGCAGTAACATFTGAGC 3073

RESULT 11
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match      76.8%; Score 2197; DB 12; Length 4498;
Best Local Similarity 88.6%; Pred. No. 0;
Matches 2534; Conservative 0; Mismatches 0; Indels 327; Gaps 1;

QY      1 GCCAGACCTATTGACTGGAATAGTGGTTTGGCAGCAGTCAAGCAGCAACAAAGCACTGGA 60
Db      1297 GCCAGACCTATTGACTGGAATAGTGGTTTGGCAGCAGTCAAGCAGCAACAAAGCACTGGA 1356
QY      61 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAACTACTCGATCCTGAAGA 120
Db      1357 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAACTACTCGATCCTGAAGA 1416
QY      121 TGTGATACCACTATCCAGATAAGAAGTCCATCTTTAATGTACATCATCATCTTCCA 180
Db      1417 TGTGATACCACTATCCAGATAAGAAGTCCATCTTTAATGTACATCATCATCTTCCA 1476
QY      181 AGTTTGCCTCAACAAGTGGAGCATTTGAGCCCATCCAGGAAGTGGAAATGTTGCCAAGGCC 240
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Db      1477 AGTTTGGCTCAACAAGTGGAGCATTTGAAGCCCATCCAGGAAGTGGAAATGTTGCCAAGGCC 1536
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Db      1537 ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTACATCATCAATGCACACTATTCTCAACA 1596
QY      301 GATCACGGTCACTAGCACAGGGATATGAGAGAAGTCTTCCCTAAAGCCTCGATTCAA 360
Db      1597 GATCACGGTCACTAGCACAGGGATATGAGAGAAGTCTTCCCTAAAGCCTCGATTCAA 1656
QY      361 GAGCTATGCCTACACACAGGCTGCTTATGTCAACACCTGTACCCCTACACGGAGGCCATT 420
Db      1657 GAGCTATGCCTACACACAGGCTGCTTATGTCAACACCTGTACCCCTACACGGAGGCCATT 1716
QY      421 TCCTTCACAGCATTTGGAAGTCTCTGAAGACAAGTCAATTTGGCAGTTCATTGATGGAGAG 480
Db      1717 TCCTTCACAGCATTTGGAAGTCTCTGAAGACAAGTCAATTTGGCAGTTCATTGATGGAGAG 1776
QY      481 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAGAAGTATTATCGTGGCTCTTTC 540
Db      1777 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAGAAGTATTATCGTGGCTCTTTC 1836
QY      541 TGTGAGGACACATTTGCAAGCACAAAGGAGAGATTTCTTAATGATGTGGAAGTGGTGAAGA 600
Db      1837 TGTGAGGACACATTTGCAAGCACAAAGGAGAGATTTCTTAATGATGTGGAAGTGGTGAAGA 1896
QY      601 CCAGTTTCATCTACTGAGGGGTACATGATGATGATTTGACAGCCCATCAGGGCCGGGTTGG 660
Db      1897 CCAGTTTCATCTACTGAGGGGTACATGATGATGATTTGACAGCCCATCAGGGCCGGGTTGG 1956
QY      661 TAATATTCTACAATTTGGGAAGTAAGCTGATTTGGAACAGCAAAATTTATCAGAAGATCAAGA 720
Db      1957 TAATATTCTACAATTTGGGAAGTAAGCTGATTTGGAACAGCAAAATTTATCAGAAGATCAAGA 2016
QY      721 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 780
Db      2017 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 2076
QY      781 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTTAAATGGATCTCCAGAATCAAGAACT 840
Db      2077 TAGCATGGAAAAACAAAGCAATTTACATAGA----- 2107
QY      841 GAAAGAGTTGAATGACTGGCTGAACAAACAAAGAAAGAAAGAAACAAAGGAAATGGAGGAAGA 900
Db      2108 ----- 2107
QY      901 GCCTCTTGACCTGATCTTGAAGAGACCTTAAACGCCAAGTACCAACAAACATAAGGTGCTTCA 960
Db      2108 ----- 2107
QY      961 AGAAGATCTAGAACAAAGAACAAAGTCAAGGTCAATTTCTCACTCAGATGGTGGTGTAGT 1020
Db      2108 ----- 2107
QY      1021 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTTGGAGAAGAACAACTTAAGGTATGGG 1080
Db      2108 ----- 2107
QY      1081 AGATCGATGGGCAACATCTCTAGATGGACAGAGACCCTGGGTTCTTTTACAGACAC 1140
Db      2108 -----AC 2109
QY      1141 TCATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGAAAAGTTTCTTCCTGGCTTACAGA 1200
Db      2110 TCATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGAAAAGTTTCTTCCTGGCTTACAGA 2169
QY      1201 AGCTGAAACAACTGCCAATGTCCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGA 1260
Db      2170 AGCTGAAACAACTGCCAATGTCCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGA 2229
QY      1261 CTCGAAGGGAGTAAAGAGCTGATGAACAAATGGCAAGACCTCCAAAGTGAATGAAGC 1320
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Db 720 AGTTTGCCTCAACAAGTGAGCATTGAAGCCATCCAGGAAGTGGAAATGTTGCCAAGGCC 779

QY 241 ACCTAAAGTGACTAAAGAAGAACAATTTTCAGTTACATCATCAAAATGCACATATTCTCAACA 300

Db 780 ACCTAAAGTGACTAAAGAAGAACAATTTTCAGTTACATCATCAAAATGCACATATTCTCAACA 839

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Db 840 GATCAGGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCTTAAGCCTCGATTCAA 899

QY 361 GAGCTATGCCTACACACAGGCTGCTTATGTACACACCTCTGACCCCTACACGGAGCCCAT 420

Db 900 GAGCTATGCCTACACACAGGCTGCTTATGTACACACCTCTGACCCCTACACGGAGCCCAT 959

QY 421 TCCTTACACAGCATTTGGAAGCTCCTGAAGACAGTCAATTTGGCAGTTCATTGATGGAGAG 480

Db 960 TCCTTACACAGCATTTGGAAGCTCCTGAAGACAGTCAATTTGGCAGTTCATTGATGGAGAG 1019

QY 481 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC 540

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QY 541 TGCTGAGGACACATTCGAAGCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 600

Db 1080 TGCTGAGGACACATTCGAAGCAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1139

QY 601 CCAGTTTCATCTACTGAGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 660

Db 1140 CCAGTTTCATCTACTGAGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 1199

QY 661 TAATATCTACAATTTGGGAAGTAACTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAACT 840

Db 1320 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAACT 1379

QY 841 GAAAGAGTTGAATGACTGGCTAACAACAAACAGAGAAGAAAGAAATGGAGGAAGA 900

Db 1380 GAAAGAGTTGAATGACTGGCTAACAACAAACAGAGAAGAAAGAAATGGAGGAAGA 1439

QY 901 GCCTCTTGGACCTGATCTTGAAGACCTTAAACCGCCAAAGTACACAAATAGGTGCTTCA 960

Db 1440 GCCTCTTGGACCTGATCTTGAAGACCTTAAACCGCCAAAGTACACAAATAGGTGCTTCA 1499

QY 961 AGAAGATCTAGAACRAGAACAAGTCAGGGTCAATTTCTCTCCTCACATGGTGGTAGT 1020

Db 1500 AGAAGATCTAGAACRAGAACAAGTCAGGGTCAATTTCTCTCCTCACATGGTGGTAGT 1559

QY 1021 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGRACAACCTTAAGGTATTGGG 1080

Db 1560 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGRACAACCTTAAGGTATTGGG 1619

QY 1081 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAGACAC 1140

Db 1620 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAGA --- 1676

QY 1141 TCATAGATTAAGTGAACAGTTCCCTGACCTGGACCTGGAAAAAGTTTCTTGCCTGCTTACAGA 1200

Db 1677 ----- 1676

QY 1201 AGCTGAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAAGAAAGGCTCCTAGAAGA 1260

Db 1677 ----- 1676

QY 1261 CTCCAAGGAGTAAAGAGCTGATGAACAAATGGAAGACCTTCAAGGTGAATGAAGC 1320

Db 1677 ----- 1676

QY 1321 TCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGGA 1380

Db 1677 ----- 1676

QY 1381 AGGTTCCGATGATGAGTCCCTGTTTACAAAAGACGTTTGGATAACATGAACCTCAAGTGGAG 1440

Db 1677 ----- 1676

QY 1441 TGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTCTTGACCAGTG 1500

Db 1677 -----CAGTTCTGACCAGTG 1691

QY 1501 GAAGCGTCTGCACACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAAGATGATGA 1560

Db 1692 GAAGCGTCTGCACACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAAGATGATGA 1751

QY 1561 ATTAAGCCGCGCAGGCACCTATTGAGGCGGACTTTCAGCAGCTTCCAGAGCTTCAAGAGCAGACGATGT 1620

Db 1752 ATTAAGCCGCGCAGGCACCTATTGAGGCGGACTTTCAGCAGCTTCCAGAGCTTCAAGAGCAGACGATGT 1811

QY 1621 ACATAGGGCCTTCAAGAGGGAATTTGAAAACCTAAAGAACCTGTAAATCATGAGTACTCTTGA 1680

Db 1812 ACATAGGGCCTTCAAGAGGGAATTTGAAAACCTAAAGAACCTGTAAATCATGAGTACTCTTGA 1871

QY 1681 GACTGTACGATATTTCTGACAGAGCAGCCCTTTGGRAGGACTAGAGAAACTCTACACAGGA 1740

Db 1872 GACTGTACGATATTTCTGACAGAGCAGCCCTTTGGRAGGACTAGAGAAACTCTACACAGGA 1931

QY 1741 GCCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCCAGAAATGTCTACTCGGCTTCTACGAAAGCA 1800

Db 1932 GCCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCCAGAAATGTCTACTCGGCTTCTACGAAAGCA 1991

QY 1801 GGCTGAGGAGGTCAATACTGAGTGGGAAAAAATGAACTTGCACCTGCACCTCGGCTGACTGSCAGAG 1860

Db 1992 GGCTGAGGAGGTCAATACTGAGTGGGAAAAAATGAACTTGCACCTGCACCTCGGCTGACTGSCAGAG 2051

QY 1861 AAAAATAGATGAGACCCCTTGAAGACCTCCAGGAACCTCAAGAGGCGCACGGATGAGCTGGA 1920

Db 2052 AAAAATAGATGAGACCCCTTGAAGACCTCCAGGAACCTCAAGAGGCGCACGGATGAGCTGGA 2111

QY 1921 CCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTGCGCAGCCGCTGGCGATCTCCT 1980

Db 2112 CCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTGCGCAGCCGCTGGCGATCTCCT 2171

QY 1981 CATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGSCACTTCGAGGAGAAATTCGCGC 2040

Db 2172 CATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGSCACTTCGAGGAGAAATTCGCGC 2231

QY 2041 TCTGAAAGAGAACGTCAGCCACGTCAGCAGCTCAATGACCTTGTGCGCAGCTTACCACCTTTGGGCAT 2100

Db 2232 TCTGAAAGAGAACGTCAGCCACGTCAGCAGCTCAATGACCTTGTGCGCAGCTTACCACCTTTGGGCAT 2291

QY 2101 TCAGCTCTCACCGTATAACCTCAGCAGCTGTGGAAGACCTGAACACAGATGGAAGCTTCT 2160

Db 2292 TCAGCTCTCACCGTATAACCTCAGCAGCTGTGGAAGACCTGAACACAGATGGAAGCTTCT 2351

QY 2161 GCAGGTGGCGCTCGAGGACCGAGTCAGGACGCTGATGAAGCCACAGGGACTTTGGTCC 2220

Db 2352 GCAGGTGGCGCTCGAGGACCGAGTCAGGACGCTGATGAAGCCACAGGGACTTTGGTCC 2411

QY 2221 ACCATCTCAGCAGCTTTCTTTCCAGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 2280

Db 2412 ACCATCTCAGCAGCTTTCTTTCCAGCTGTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 2471

QY 2281 AAACAAAGTCCCTACTATATCAACCCAGAGACTCAAAACAACTTGTGTGGACATFCCCAA 2340

Db 2472 AAACAAAGTCCCTACTATATCAACCCAGAGACTCAAAACAACTTGTGTGGACATFCCCAA 2531

QY 2341 AATGACAGAGCTCTACAGTCTTTTAGCTGACCTGAATAATGTGAGATTTCTCAGCTTATAG 2400

Db 2532 AATGACAGAGCTCTACAGTCTTTTAGCTGACCTGAATAATGTGAGATTTCTCAGCTTATAG 2591

QY 2401 GACTGCCATGAAACTCCGAAGACTGCAGAGGCCCTTTGCTGGATCTCTTGAGCCGTGC 2460
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Db 2592 GACTGCCATGAAACTCCGAAGACTGCAGAGGCCCTTTGCTGGATCTCTTGAGCCGTGC 2651
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QY 2461 AGCTGCATGTGATGCCCTTGGACCAAGCACAACTCAAGCAAAATGACAGCCCATGGATAT 2520
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Db 2652 AGCTGCATGTGATGCCCTTGGACCAAGCACAACTCAAGCAAAATGACAGCCCATGGATAT 2711
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QY 2521 CCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGCACAA 2580
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Db 2712 CCTGCAGATTATTAATTGTTGACCACTATTATGACCGCCTGGAGCAAGAGCACAA 2771
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QY 2581 TTTGGTCAACGTCCCTCTCTGCGTGGATATGTGTCTGAACTGGCTGCTGAATGTTTATGA 2640
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Db 2772 TTTGGTCAACGTCCCTCTCTGCGTGGATATGTGTCTGAACTGGCTGCTGAATGTTTATGA 2831
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QY 2641 TACGGACGAACAGGAGGATCCGTGTCTCTCTTTTAAACTGGCATCATTTCCCTGTG 2700
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Db 2832 TACGGACGAACAGGAGGATCCGTGTCTCTCTTTTAAACTGGCATCATTTCCCTGTG 2891
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QY 2701 TAAACACATTTGGAAGACAACTGACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 2760
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Db 2892 TAAACACATTTGGAAGACAACTGACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 2951
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QY 2761 ATTTGTGACCAAGCGCAGGCTGGCCCTCCCTCTGTCATGATCTATCCAAATTTCCAAAGCA 2820
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Db 2952 ATTTGTGACCAAGCGCAGGCTGGCCCTCCCTCTGTCATGATCTATCCAAATTTCCAAAGCA 3011
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QY 2821 GTTGGGTGAAGTTGCATCCTTTTGGGGGCAGTAACATTGAGC 2861
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Db 3012 GTTGGGTGAAGTTGCATCCTTTTGGGGGCAGTAACATTGAGC 3052
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RESULT 13
US-09-845-416-31
; sequence 31, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: Del142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 4476
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-31

Query Match 75.3%; Score 2155; DB 12; Length 4476;
Best Local Similarity 87.8%; Pred. No. 0;
Matches 2513; Conservative 0; Mismatches 0; Indels 348; Gaps 1;
QY 1 GCCAGACCTATTTGACTGGAATAGTGTGGTTGCCAGCAGTCAGCCACACACGACTGGA 60
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Db 1296 GCCAGACCTATTTGACTGGAATAGTGTGGTTGCCAGCAGTCAGCCACACACGACTGGA 1355
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QY 61 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAACTACTCGATCCTGAAGA 120
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Db 1356 ACATGCATTCAACATCGCCAGATATCAATTAGGCATAGAGAACTACTCGATCCTGAAGA 1415
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QY 121 TGTGTATACCACTATCCAGATAGAAGTCCATCTTAATGTACATCATCACTCTTCCA 180
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Db 1416 TGTGTATACCACTATCCAGATAGAAGTCCATCTTAATGTACATCATCACTCTTCCA 1475
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QY 181 AGTTTGCCTCAACAAGTGAGCAFTGAAGCCATCCAGGAAGTGGAAATGTTGCCAAGGCC 240
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Db 1476 AGTTTGCCTCAACAAGTGAGCAFTGAAGCCATCCAGGAAGTGGAAATGTTGCCAAGGCC 1535
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QY 241 ACCTAAAGTGACTAAAGAAGAACAATTTTTCAGTTACATCATCAAAATGCACATATTCTCAACA 300
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Db 1536 ACCTAAAGTGACTAAAGAAGAACAATTTTTCAGTTACATCATCAAAATGCACATATTCTCAACA 1595
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QY 301 GATCACGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCTAAGCCTCGATTCAA 360
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Db 1596 GATCACGGTCAGTCTAGCACAGGGATATGAGAGAACTTCTTCCCTAAGCCTCGATTCAA 1655
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QY 361 GAGCTATGCCTACACACAGGCTGCTTATGTCAACCCTCTGACCCCTACACGAGCCCCATT 420
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Db 1656 GAGCTATGCCTACACACAGGCTGCTTATGTCAACCCTCTGACCCCTACACGAGCCCCATT 1715
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QY 421 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAGTCAATTTGCGAGTTCATTGATGGAGAG 480
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Db 1716 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAGTCAATTTGCGAGTTCATTGATGGAGAG 1775
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QY 481 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAGAAGATATTATCGTGGCTTCTTTC 540
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Db 1776 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAGAAGATATTATCGTGGCTTCTTTC 1835
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QY 541 TGCTGAGACACATTCGAAGCACAGGAGAGATTTCTTAATGATGTGGAAGTGGTGAAGA 600
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Db 1836 TGCTGAGACACATTCGAAGCACAGGAGAGATTTCTTAATGATGTGGAAGTGGTGAAGA 1895
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QY 601 CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGGGTGG 660
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Db 1896 CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGGGTGG 1955
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QY 661 TAATATTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGAAATTTATCAGAAGATGAAGA 720
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Db 1956 TAATATTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGAAATTTATCAGAAGATGAAGA 2015
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QY 721 AACTGAAGTACAAGACAGATGAATCTCTTAATCAAGATGGGAATGCCTCAGGGTAGC 780
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Db 2016 AACTGAAGTACAAGACAGATGAATCTCTTAATCAAGATGGGAATGCCTCAGGGTAGC 2075
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QY 781 TAGCATGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAATCAGAAACT 840
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Db 2076 TAGCATGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAATCAGAAACT 2135
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QY 841 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACAGGAAATATGAGGAAGA 900
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Db 2136 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACAGGAAATATGAGGAAGA 2195
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QY 901 GCCTCTTGACCTGATCTTGAAGACCTAAAACGCCAAGTACACAACATAAGGTGCTTCA 960
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Db 2196 GCCTCTTGACCTGATCTTGAAGACCTAAAACGCCAAGTACACAACATAAGGTGCTTCA 2255
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QY 961 AGAAGATCTAGAACACAGAACAAAGTCAAGGTCAATCTCTCACTACATGGTGGTAGT 1020
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Db 2256 AGAAGATCTAGAACACAGAACAAAGTCAAGGTCAATCTCTCACTACATGGTGGTAGT 2315
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QY 1021 TGATGAATCTAGTGGAGATCACGCACTGCTGCTTTGGAAGAACAACTTAAGGTATTGG 1080
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Db 2316 TGATGAATCTAGTGGAGATCACGCACTGCTGCTTTGGAAGAACAACTTAAGGTATTGG 2375
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QY 1081 AGATCGATGGGCAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAAGACAC 1140
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Db 2376 AGATCGATGGGCAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAAGA --- 2432
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QY 1141 TCATAGATTACTGCAACAGTTCCCTCGACCTGGACCTGGAAAAAGTTTCTTGCTGCTTACAGA 1200
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Db 2433 ----- 2432
QY 1201 AGCTGAACAACACTGCCAATGTCTCTACAGGATGCTTACCCGTAAGAAAGGCTCCTAGAAGA 1260
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Db 2433 ----- 2432
QY 1261 CTCCAAGGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTGAAGC 1320
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Db 2433 ----- 2432

QY 1321 TCACACAGATGTTTATCACAACTGGATGAAACAGCCAAATAATCCTGAGATCCCTGGA 1380
Db 2433 ----- 2432
QY 1381 AGGTTCCGATGATGCGATCCTGTTATCAAAGACGTTGGATAACATGAACCTCAAGTGGAG 1440
Db 2433 ----- 2432
QY 1441 TGAAC TTCGGA AAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGTACACCATG 1500
Db 2433 ----- CAGTCTGTACCATG 2447
QY 1501 GAAGCGTGTGCACCTTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAAGATGATGA 1560
Db 2448 GAAGCGTGTGCACCTTTCTCTGCAGGAACCTTCTGTGTGGCTACAGCTGAAAGATGATGA 2507
QY 1561 ATTAAGCGCGCAGGCACCTATTGGAGGCGACTTTCAGCAGCTTCAGAGCAGTTCAGAGAACGATGT 1620
Db 2508 ATTAAGCGCGCAGGCACCTATTGGAGGCGACTTTCAGCAGCTTCAGAGAACGATGT 2567
QY 1621 ACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTATCATGAGTACTCTTGA 1680
Db 2568 ACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTATCATGAGTACTCTTGA 2627
QY 1681 GACTGTACGAATATTCTTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTTACCAGGA 1740
Db 2628 GACTGTACGAATATTCTTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTTACCAGGA 2687
QY 1741 GCCCGAGAGAGCTGCCCTCCTGAGGAGAGAGCCCGAATGTACTCGGCTTCTACGAAAGCA 1800
Db 2688 GCCCGAGAGAGCTGCCCTCCTGAGGAGAGAGCCCGAATGTACTCGGCTTCTACGAAAGCA 2747
QY 1801 GGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAG 1860
Db 2748 GGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAG 2807
QY 1861 AAAAAATAGATGAGACCOCTTGAAGACTCCAGGACTTCAAGAGSCCAGGATGAGCTGGA 1920
Db 2808 AAAAAATAGATGAGACCOCTTGAAGACTCCAGGACTTCAAGAGSCCAGGATGAGCTGGA 2867
QY 1921 CCTCAAGTGGCCGACGCTGAGTGATCAAGGGATCCTGGCAGCCGCTGGCGATCCT 1980
Db 2868 CCTCAAGTGGCCGACGCTGAGTGATCAAGGGATCCTGGCAGCCGCTGGCGATCCT 2927
QY 1981 CATTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCCACTTCGAGGAGAAATTCGCC 2040
Db 2928 CATTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCCACTTCGAGGAGAAATTCGCC 2987
QY 2041 TCTGAAGAGAGACGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCTTGGGCAT 2100
Db 2988 TCTGAAGAGAGACGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCTTGGGCAT 3047
QY 2101 TCAGCTTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCT 2160
Db 3048 TCAGCTTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCT 3107
QY 2161 GCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGACTTTGGTCC 2220
Db 3108 GCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGACTTTGGTCC 3167
QY 2221 AGCATCTCAGCACCTTTCTTCCACGTCGTGCCAGSGTCCCTGGGAGAGAGCCATCTCGCC 2280
Db 3168 AGCATCTCAGCACCTTTCTTCCACGTCGTGCCAGSGTCCCTGGGAGAGAGCCATCTCGCC 3227
QY 2281 AAACAAAGTGCCTACTATATCAACACAGAGACTCAAAACAACCTGCTGGGACCATCCAA 2340
Db 3228 AAACAAAGTGCCTACTATATCAACACAGAGACTCAAAACAACCTGCTGGGACCATCCAA 3287
QY 2341 AATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTACAGATTCACGCTTATAG 2400
Db 3288 AATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTACAGATTCACGCTTATAG 3347
QY 2401 GACTGCCATGAACCTCCGAGAGACTGCAGAGGCGCCCTTTGCTTGGATCTCTTGAGCCCTGTC 2460

Db 3348 GACTGCCATGAAACTCCGAAGACTGCAGAAGGCCCTTTGCTGGATCTCTGAGCCCTGTC 3407
QY 2461 AGCTGCATGTGATGCCCTTGGACAGCACAACTCAAGCAAAATGACCAAGCCCATGGATAT 2520
Db 3408 AGCTGCATGTGATGCCCTTGGACAGCACAACTCAAGCAAAATGACCAAGCCCATGGATAT 3467
QY 2521 CCTGCAGATTATTAATTGTTGACCACCTATTATGACCGCCTGGAGCAAGAGCACACAA 2580
Db 3468 CCTGCAGATTATTAATTGTTGACCACCTATTATGACCGCCTGGAGCAAGAGCACACAA 3527
QY 2581 TTTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGA 2640
Db 3528 TTTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGA 3587
QY 2641 TACGGGACGACAGAGGAGGATCCCTGTCCCTCTTTTAAAACTGGCATCATTTCCCTGTG 2700
Db 3588 TACGGGACGACAGAGGAGGATCCCTGTCCCTCTTTTAAAACTGGCATCATTTCCCTGTG 3647
QY 2701 TAAAGCACATTTGGAAGACAACTACAGATACTTTCAAAGCAAGTGGCAAGTTCACAGG 2760
Db 3648 TAAAGCACATTTGGAAGACAACTACAGATACTTTCAAAGCAAGTGGCAAGTTCACAGG 3707
QY 2761 ATTTGTGACCCAGCGCAGGCTGGGCTCCTCTCTGATGATCTATCCAAATTCACAGACA 2820
Db 3708 ATTTGTGACCCAGCGCAGGCTGGGCTCCTCTCTGATGATCTATCCAAATTCACAGACA 3767
QY 2821 GTTGGGTGAAGTTGCATCCTTTGGGGGCGAGTAACATTGAGC 2861
Db 3768 GTTGGGTGAAGTTGCATCCTTTGGGGGCGAGTAACATTGAGC 3808

RESULT 14
US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 60.7%; Score 1735.6; DB 12; Length 11058;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1750; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 1088 TGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACACACACTCATAGA 1147
Db 8008 TGGAGAAGCATTCATAAAAGGTGAGTGAGCGAGAGGCTGCTTTGGAAGAAACTCATAGA 8067
QY 1148 TTACTGCAACAGTCCCTCGACCTGGAAGTCTTCTGCTGGCTTACAGAGCTGAA 1207
Db 8068 TTACTGCAACAGTCCCTCGACCTGGAAGTCTTCTGCTGGCTTACAGAGCTGAA 8127
QY 1208 ACRACCTGCCAATGTCTTACAGATGCTACCCGTAAAGGAAGGCTCCTTACAGACTCCAAG 1267
Db 8128 ACRACCTGCCAATGTCTTACAGATGCTACCCGTAAAGGAAGGCTCCTTACAGACTCCAAG 8187
QY 1268 GGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAGGTGAAATGGAAGCTCACACA 1327
Db 8188 GGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAGGTGAAATGGAAGCTCACACA 8247

QY 1328 GATGTTTATCACAACTCGATGAAACACAGCCAAAAATCTCGAGATCCCTGGAGGTTCC 1387
Db 8248 GATGTTTATCACAACTCGATGAAACACAGCCAAAAATCTCGAGATCCCTGGAGGTTCC 8307
QY 1388 GATGATGCAGTCTGTTACAAAGACGTTTGGATAACATGAACTTCAAGTGGAGTGAATTT 1447
Db 8308 GATGATGCAGTCTGTTACAAAGACGTTTGGATAACATGAACTTCAAGTGGAGTGAATTT 8367
QY 1448 CGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCAAGTGAACGGT 1507
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QY 1508 CTGCACTCTTCTCTGCAGGAATCTTCTGGTGGCTACAGTGAAGATGATGAATTAAGC 1567
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QY 1568 CGGAGGCACTTATTGGAGGCGACTTTCAGCAGTTTCAGAGCAGAAACGATGTACATAGG 1627
Db 8488 CGGAGGCACTTATTGGAGGCGACTTTCAGCAGTTTCAGAGCAGAAACGATGTACATAGG 8547
QY 1628 GCCTCAAGAGGGAATTGAAAACTAAAGAACTGTAATCATGAGTACTCTTGAGACTGTA 1687
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QY 1688 CGAATATTTCTGCAGAGCAGCCTTTTGAAGGACTAGAGAACTCTACAGGAGCCCGAGA 1747
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QY 1748 GAGTGCCTCTCTGAGGAGAGAGCCAGAAATGTCAGTGGCTTCTACGAAAGCAGGCTGAG 1807
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Db 8728 GAGTCAATACTAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATA 8787
QY 1868 GATGAGACCCCTTGAAGACTCCAGGAATCTCAAGAGGCCAGGATGAGTGGACCTCAAG 1927
Db 8788 GATGAGACCCCTTGAAGACTCCAGGAATCTCAAGAGGCCAGGATGAGTGGACCTCAAG 8847
QY 1928 CTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTCAC 1987
Db 8848 CTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTCAC 8907
QY 1988 TCTCTCCAAGATCACCTCGAGAAAGTCAAGCACTTCAGAGCAATTCGAGAGAAATTCGCGCTCTGAAA 2047
Db 8908 TCTCTCCAAGATCACCTCGAGAAAGTCAAGCACTTCGAGAGCAATTCGCGCTCTGAAA 8967
QY 2048 GAGAACGTGAGCCAGCTCAATGACCTTGCTCGCAGCTTACCACCTTTGGCATTTCAGCTC 2107
Db 8968 GAGAACGTGAGCCAGCTCAATGACCTTGCTCGCAGCTTACCACCTTTGGCATTTCAGCTC 9027
QY 2108 TCACCGTATAAOCCTCAGCACTCTGGAAGACCTGGAACACCCAGATGGAAGCTTCTGCAGGTG 2167
Db 9028 TCACCGTATAAOCCTCAGCACTCTGGAAGACCTGGAACACCCAGATGGAAGCTTCTGCAGGTG 9087
QY 2168 GCGGTGAGGACCGAGTCAGGCAGCTGCATGAAGCCCCACAGGACTTTGGTCCAGCATCT 2227
Db 9088 GCGGTGAGGACCGAGTCAGGCAGCTGCATGAAGCCCCACAGGACTTTGGTCCAGCATCT 9147
QY 2228 CAGCACTTTCTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAA 2287
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QY 2288 GTGCCCTACTATATCAACCCAGAGACTCAAACTTGTGCTGGGACCATTCGCAAAATGACA 2347
Db 9208 GTGCCCTACTATATCAACCCAGAGACTCAAACTTGTGCTGGGACCATTCGCAAAATGACA 9267
QY 2348 GAGCTCTACAGTCTTTAGCTGACTGAATAATGTGATATCTCAGATCTCAGCTTATAGGACTGCC 2407
Db 9268 GAGCTCTACAGTCTTTAGCTGACTGAATAATGTGATATCTCAGATCTCAGCTTATAGGACTGCC 9327
QY 2408 ATGAARCTCCGAAGACTGCAGAAGGCCCTTTTGCTTGGATCTCTTGAGCCCTGTCAGCTGCA 2467

Db 9328 ATGAAACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTGAGCTGCA 9387
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QY 2528 ATTATTAATTTGACCACTATTTATGACCGCCCTGGAGCAAGAGCAACAATTTGGTC 2587
Db 9448 ATTATTAATTTGACCACTATTTATGACCGCCCTGGAGCAAGAGCAACAATTTGGTC 9507
QY 2588 AACGTCCCTCTCTCGGTGGATATGTGTCTGAACTGGCTGCTGAATGTTTATGATACGGGA 2647
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QY 2768 GACCAGCGCAGGCTGGGCTCTCTCTGCTGATGTTTATCCAAATCCAAAGACAGTTGGGT 2827
Db 9688 GACCAGCGCAGGCTGGGCTCTCTCTGCTGATGTTTATCCAAATCCAAAGACAGTTGGGT 9747
QY 2828 GAAAGTTGATCCTTTGGGGCAGTAACATTTGAGC 2861
Db 9748 GAAAGTTGATCCTTTGGGGCAGTAACATTTGAGC 9781

RESULT 15

US-09-782-378A-22
; Sequence 22, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 22
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-22

Query Match 60.7%; Score 1735.6; DB 10; Length 13957;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1750; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

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Db 8336 ACAACTGCCAATGTCTTACAGGATGCTACCCGTAGGAAAGGCTCTTAGAAGACTCCAAG 8395
QY 1268 GGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTGAAGCTCACACA 1327

Db	8396	GGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGCTCAACA	8455
QY	1328	GATGTTTATCACAACTGGATGAACACAGCCAAAAAATCCTGAGATCCCTGGAAGTTCC	1387
Db	8456	GAIGTTTATCACAACTGGATGAACACAGCCAAAAAATCCTGAGATCCCTGGAAGTTCC	8515
QY	1388	GATGATGCAGTCTCTCAACATTAAGAGCGTTTGGATAACATGAACCTCAAGTGGAGTGAAC	1447
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QY	1448	CGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGTGGAAAGCG	1507
Db	8576	CGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAGTGGAAAGCG	8635
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Db	8636	CTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAGATGATGAATTAAG	8695
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Db	9776	CGAACAGGGAGGATCCGTGTCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCA	9835
QY	2708	CATTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGT	2767
Db	9836	CATTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGT	9895
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Db	9896	GACCAGCGCAGGCTGGGCCCTCCTTCTGATGATTTATCCAAATTCCAAAGACAGTTGGGT	9955
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Db	9956	GAAGTTGCATCCTTTGGGGGCGAGTAACATTGAGC	9989

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Job time : 687.126 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 23:43:25 ; Search time 305.721 Seconds
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Total number of hits satisfying chosen parameters: 3357240

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1321	100.0	2169	12	US-09-845-416-4
3	1321	100.0	3510	12	US-09-845-416-12
4	1321	100.0	3531	12	US-09-845-416-10
5	1321	100.0	3858	12	US-09-845-416-9
6	1321	100.0	3999	12	US-09-845-416-6
7	1321	100.0	4182	12	US-09-845-416-2
8	1321	100.0	4476	12	US-09-845-416-31
9	1321	100.0	4498	12	US-09-845-416-30
10	1321	100.0	4825	12	US-09-845-416-29
11	1321	100.0	4848	12	US-09-845-416-35
12	1321	100.0	4966	12	US-09-845-416-28
13	1321	100.0	4990	12	US-09-845-416-34
14	1321	100.0	5060	12	US-09-845-416-36
15	1321	100.0	5149	12	US-09-845-416-27
16	1321	100.0	11058	12	US-09-845-416-1

17	1321	100.0	13957	10	US-09-782-378A-22	Sequence 22, Appl
18	1321	100.0	13957	10	US-09-880-107-2284	Sequence 2284, Ap
19	1037.6	78.5	3446	12	US-09-845-416-14	Sequence 14, Appl
20	1037.6	78.5	4414	12	US-09-845-416-32	Sequence 32, Appl
21	1036	78.4	1434	12	US-09-845-416-15	Sequence 15, Appl
22	564	42.7	10302	10	US-09-782-378A-23	Sequence 23, Appl
23	555.2	42.0	16531	12	US-10-101-510-667	Sequence 667, App
24	54.2	4.1	449	11	US-09-918-995-24084	Sequence 24084, A
25	54.2	4.1	2247	10	US-09-960-253-157	Sequence 157, App
26	42.8	3.2	1690	14	US-10-037-270-69	Sequence 69, Appl
27	41.8	3.2	440	14	US-10-184-644-442	Sequence 442, App
28	41.8	3.2	440	14	US-10-184-634-442	Sequence 442, App
29	41.8	3.2	1579	12	US-09-814-353-21423	Sequence 21423, A
30	41.8	3.2	1579	14	US-10-198-846-10397	Sequence 10397, A
31	40	3.0	7420	10	US-09-917-800A-502	Sequence 502, App
32	38.8	2.9	431	13	US-10-027-632-62930	Sequence 62930, A
33	38.8	2.9	431	13	US-10-027-632-64241	Sequence 64241, A
34	38.8	2.9	431	13	US-10-027-632-66118	Sequence 66118, A
35	38.8	2.9	579	13	US-10-027-632-41893	Sequence 41893, A
36	38.8	2.9	656	13	US-10-027-632-310183	Sequence 310183,
37	38.8	2.9	3189	11	US-09-919-039-306	Sequence 306, App
38	38.4	2.9	497	11	US-09-918-995-30349	Sequence 30349, A
39	38.4	2.9	7787	10	US-09-954-456-2006	Sequence 2006, Ap
40	38.4	2.9	7814	12	US-10-133-013-199	Sequence 199, App
41	37.6	2.8	417	11	US-09-918-995-3955	Sequence 3955, Ap
42	37.6	2.8	1688	12	US-09-873-319-418	Sequence 418, App
43	37.6	2.8	1688	12	US-09-960-706-670	Sequence 670, App
44	37.4	2.8	3774	14	US-10-156-761-2845	Sequence 2845, Ap
45	37.4	2.8	9025608	14	US-10-156-761-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-845-416-13
; Sequence 13, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 1821
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-13

Query Match	100.0%;	Score 1321;	DB 12;	Length 1821;
Best Local Similarity	100.0%;	Pred. No. 0;		
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			Indels	0;
			Gaps	0;
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QY 421 GAAAGTCAAGGCACCTCGAGGAGAAATTTGGCCCTCTGAAAGAGAACCTGAGCCACGTCAA 480

Db 523 GAAAGTCAAGGCACCTCGAGGAGAAATTTGGCCCTCTGAAAGAGAACCTGAGCCACGTCAA 582

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RESULT 2

US-09-845-416-4

; Sequence 4, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1.

; SEQ ID NO 4

; LENGTH: 2169

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-4

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Best Local Similarity 100.0%; Pred. No. 0;

Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 511 AACTAAGAAACCTGTATCATGTACTCTTTGAGACTGTACGAATATTTTGACAGAGCA 570

QY 121 GCCTTTGGAAGGACTAGAGAAACTTACCAGGAGCCAGAGAGTGCCTCCTGAGGAGAG 180

Db 571 GCCTTTGGAAGGACTAGAGAAACTTACCAGGAGCCAGAGAGTGCCTCCTGAGGAGAG 630

QY 181 AGCCAGAAATGTCACTGGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGA 240

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QY 241 AAAATTGAACCTGCACTCCGCTGACTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 300

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QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCACACAGGATTTTGTACCAGCGCAGGCTGGGCC 1200
Db 1591 ATACCTTTTCAAGCAAGTGGCAAGTTCACACAGGATTTTGTACCAGCGCAGGCTGGGCC 1650
QY 1201 CCTTCTGCATGATTCTATCCAAATTCAGACAGATTGGGTGAAGTTGCATCCTTTGGGG 1260
Db 1651 CCTTCTGCATGATTCTATCCAAATTCAGACAGATTGGGTGAAGTTGCATCCTTTGGGG 1710
QY 1261 CAGTAACATTGAGCCAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 1320
Db 1711 CAGTAACATTGAGCCAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 1770
QY 1321 C 1321
Db 1771 C 1771

RESULT 3
US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 50/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-12

Query Match 100.0%; Score 1321; DB 12; Length 3510;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CGACTTTCCAGCAGTTTCAGAAGCAGAAACGATGTACATAGGGCCTTCAAGAGGGAATTGAA 60
Db 1779 CGACTTTCCAGCAGTTTCAGAAGCAGAAACGATGTACATAGGGCCTTCAAGAGGGAATTGAA 1838
QY 61 AACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTCTACGAATATTCTTGACAGAGCA 120
Db 1839 AACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTCTACGAATATTCTTGACAGAGCA 1898
QY 121 GCCTTTGGAGGAGACTAGAGAAACTCTACCAGGAGCCACAGAGAGCTGCCTCCTGAGGAGAG 180
Db 1899 GCCTTTGGAGGAGACTAGAGAAACTCTACCAGGAGCCACAGAGAGCTGCCTCCTGAGGAGAG 1958
QY 181 AGCCACAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCATATACTAGTGGGA 240
Db 1959 AGCCACAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCATATACTAGTGGGA 2018
QY 241 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAGAAAAATAGATGAGACCCCTTGAAGAAGT 300
Db 2019 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAGAAAAATAGATGAGACCCCTTGAAGAAGT 2078
QY 301 CCAGGAACTTCAAGAGGGCCACGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGAT 360
Db 2079 CCAGGAACTTCAAGAGGGCCACGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGAT 2138
QY 361 CAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 420
Db 2139 CAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 2198
QY 421 GAAAGTCAAGGCACCTCGAGGAGAAATTGGCCCTCTGAAAGAGAACGTTGAGCCACGTCAC 480
Db 2199 GAAAGTCAAGGCACCTCGAGGAGAAATTGGCCCTCTGAAAGAGAACGTTGAGCCACGTCAC 2258
QY 481 TGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGTCTCACCGTATAACCTCAGCAC 540
Db 2259 TGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGTCTCACCGTATAACCTCAGCAC 2318
QY 541 TCTGGAAGACCTGAAACACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGACCGAGTCAG 600
Db 2319 TCTGGAAGACCTGAAACACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGACCGAGTCAG 2378
QY 601 GCAGCTGCATGAAGCCCAACAGGAGACTTTGGTCCAGCATCTCAGCAGCTTTCTTCCACGTC 660
Db 2379 GCAGCTGCATGAAGCCCAACAGGAGACTTTGGTCCAGCATCTCAGCAGCTTTCTTCCACGTC 2438
QY 661 TGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAGTGCCCTACTATATCAACCA 720
Db 2439 TGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAGTGCCCTACTATATCAACCA 2498
QY 721 CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGC 780
Db 2499 CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGC 2558
QY 781 TGACCTGAATAATGTTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 840
Db 2559 TGACCTGAATAATGTTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 2618
QY 841 GAAGGCCCTTTGGCTTGGATCTCTTGAGCCCTGTCAGCTGCATGTGATGCCCTGGACCAGCA 900
Db 2619 GAAGGCCCTTTGGCTTGGATCTCTTGAGCCCTGTCAGCTGCATGTGATGCCCTGGACCAGCA 2678
QY 901 CAACCTCAAGCAAAATGACACGCCCATGGATATCCTGCAGATTATTAATGTTTGACCAC 960
Db 2679 CAACCTCAAGCAAAATGACACGCCCATGGATATCCTGCAGATTATTAATGTTTGACCAC 2738
QY 961 TATTATGACCGCTGGAGCAAGAGCACACAATTTGGTCAACGTCCCTCTCTGCGTGA 1020
Db 2739 TATTATGACCGCTGGAGCAAGAGCACACAATTTGGTCAACGTCCCTCTCTGCGTGA 2798
QY 1021 TATGTGTCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGT 1080
Db 1081 TATGTGTCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGT 1140

Db 2799 TATGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGT 2858
QY 1081 CCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAG 1140
Db 2859 CCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAG 2918
QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCGCAGGCTGGCCT 1200
Db 2919 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCGCAGGCTGGCCT 2978
QY 1201 CCTTCTGCATGATCTTATCCAAAATCCAAAGACAGTTGGGTGAAGTTGCATCCCTTGGGGG 1260
Db 2979 CCTTCTGCATGATCTTATCCAAAATCCAAAGACAGTTGGGTGAAGTTGCATCCCTTGGGGG 3038
QY 1261 CAGTAACATTGAGCCCAAGTGTCCGGAGTGTCTCCAAATTTGCTAATAAAGCCAGAGAT 1320
Db 3039 CAGTAACATTGAGCCCAAGTGTCCGGAGTGTCTCCAAATTTGCTAATAAAGCCAGAGAT 3098
QY 1321 C 1321
Db 3099 C 3099

RESULT 4
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 100.0%; Score 1321; DB 12; Length 3531;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCCAGCAGTTTCAGAGCAGAACGATGTACATAGGGCCTTCAGAGGGAAITGAA 60
Db 1800 CGACTTTCCAGCAGTTTCAGAGCAGAACGATGTACATAGGGCCTTCAGAGGGAAITGAA 1859
QY 61 AACTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGACCA 120
Db 1860 AACTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGACCA 1919
QY 121 GCCTTTGGAAGACTAGAGAAACTCTACCAAGAGCCCAAGAGACTGCCCTCTGAGGAGAG 180
Db 1920 GCCTTTGGAAGACTAGAGAAACTCTACCAAGAGCCCAAGAGACTGCCCTCTGAGGAGAG 1979
QY 181 AGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTTCAATACTAGTGGGA 240
Db 1980 AGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTTCAATACTAGTGGGA 2039
QY 241 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 300
Db 2040 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 2099
QY 301 CCAGGAACCTTCAGAGGCCCAAGATGAGCTGACCTCAAGCTCGCCCAAGCTGAGGTGAT 360
Db 2100 CCAGGAACCTTCAGAGGCCCAAGATGAGCTGACCTCAAGCTCGCCCAAGCTGAGGTGAT 2159
QY 361 CAAGGGATCCTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCTCCAGAGATCACCTCGA 420

Db 2160 CAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 2219
QY 421 GAAAGTCAAGGCACCTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCAA 480
Db 2220 GAAAGTCAAGGCACCTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCAA 2279
QY 481 TGACCTTGCTCGCCAGCTTACCACTTTGGCAATTCAGCTCTCACCGTATACCTCAGCAC 540
Db 2280 TGACCTTGCTCGCCAGCTTACCACTTTGGCAATTCAGCTCTCACCGTATACCTCAGCAC 2339
QY 541 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCGTTCGAGGACCGAGTCA 600
Db 2340 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCGTTCGAGGACCGAGTCA 2399
QY 601 GCAGCTGCATGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGCACATTCTCTTCCACGTC 660
Db 2400 GCAGCTGCATGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGCACATTCTCTTCCACGTC 2459
QY 661 TGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAAGTCCCTACTATATCAACCA 720
Db 2460 TGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAAGTCCCTACTATATCAACCA 2519
QY 721 CGAGACTCAAAACAACCTGCTGGGACCATCCAAAATGACAGAGCTCTACAGCTCTTTAGC 780
Db 2520 CGAGACTCAAAACAACCTGCTGGGACCATCCAAAATGACAGAGCTCTACAGCTCTTTAGC 2579
QY 781 TGACCTGAATAATGTCAGATTCTCAGCTTATAGACTGCCATGAAACTCCGAAGACTGCA 840
Db 2580 TGACCTGAATAATGTCAGATTCTCAGCTTATAGACTGCCATGAAACTCCGAAGACTGCA 2639
QY 841 GAAGGCCCTTTGCTTGATCTCTTGAGCCTGTGACGTGCATGTGATGCCCTTGACCCAGCA 900
Db 2640 GAAGGCCCTTTGCTTGATCTCTTGAGCCTGTGACGTGCATGTGATGCCCTTGACCCAGCA 2699
QY 901 CAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCTGCAGATTATTAATTGTTGACCC 960
Db 2700 CAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCTGCAGATTATTAATTGTTGACCC 2759
QY 961 TATTATGACCCGCTGGAGCAAGAGCACAAATTTGGTCAACGCTCCCTCTCTGCGTGA 1020
Db 2760 TATTATGACCCGCTGGAGCAAGAGCACAAATTTGGTCAACGCTCCCTCTCTGCGTGA 2819
QY 1021 TATGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTGT 1080
Db 2820 TATGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTGT 2879
QY 1081 CCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTGAAAGCACATTTGGAAGACAAAGTACAG 1140
Db 2880 CCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTGAAAGCACATTTGGAAGACAAAGTACAG 2939
QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCGCAGGCTGGCCT 1200
Db 2940 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCGCAGGCTGGCCT 2999
QY 1201 CCTTCTGCATGATCTCTATCCAAAATCCAAAGACAGTTGGGTGAAGTTGCATCCCTTGGGG 1260
Db 3000 CCTTCTGCATGATCTCTATCCAAAATTTCCAAAGACAGTTGGGTGAAGTTGCATCCCTTGGGG 3059
QY 1261 CAGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAAATTTGCTAATAAAGCCAGAGAT 1320
Db 3060 CAGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAAATTTGCTAATAAAGCCAGAGAT 3119
QY 1321 C 1321
Db 3120 C 3120

RESULT 5
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:

QY 121 GCCTTTGGAAGGACTAGAGAACTCTACAGGAGCCCAAGAGAGCTGCCTCCTGAGGAGAG 180
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2388 GCCTTTGGAAGGACTAGAGAACTCTACAGGAGCCCAAGAGAGCTGCCTCCTGAGGAGAG 2447
QY 181 AGCCAGAAATGTCACCTCGCTTCTACGAAAGCAGGCTGAGAGGTTCAATACTAGTGGGA 240
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2448 AGCCAGAAATGTCACCTCGCTTCTACGAAAGCAGGCTGAGAGGTTCAATACTAGTGGGA 2507
QY 241 ABAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 300
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2508 ABAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 2567
QY 301 CCAGGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGAT 360
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2568 CCAGGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGAT 2627
QY 361 CAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGAGCTCTCTCCAGATCACCTCGA 420
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2628 CAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGAGCTCTCTCCAGATCACCTCGA 2687
QY 421 GAAAGTCAAGGCACTTCGAGGAGAAAAATTGCCCTCTGAAGAGAACGTCAGCCACGTCAA 480
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2688 GAAAGTCAAGGCACTTCGAGGAGAAAAATTGCCCTCTGAAGAGAACGTCAGCCACGTCAA 2747
QY 481 TGACCTTGCTCGCAGCTTACCACTTTTGGGCAATTCAGCTCACCCTATTAACCTCAGCAC 540
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2748 TGACCTTGCTCGCAGCTTACCACTTTTGGGCAATTCAGCTCACCCTATTAACCTCAGCAC 2807
QY 541 TCTGGAAGACCTGAACACCCAGATGGAAGCTTCTGCAGGTGCCGTGAGGACCGAGTCAG 600
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2808 TCTGGAAGACCTGAACACCCAGATGGAAGCTTCTGCAGGTGCCGTGAGGACCGAGTCAG 2867
QY 601 GCAGCTGCATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTC 660
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2868 GCAGCTGCATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTC 2927
QY 661 TGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCA 720
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2928 TGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCA 2987
QY 721 CGAGACTCAAAACAACTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACCACTCTTAGC 780
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2988 CGAGACTCAAAACAACTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACCACTCTTAGC 3047
QY 781 TGACCTGAATAATGTGATGATTTTATAGGACTGCCATGAACTCCCGAAGACTGCA 840
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3048 TGACCTGAATAATGTGATGATTTTATAGGACTGCCATGAACTCCCGAAGACTGCA 3107
QY 841 GAAGGCCCTTTGCTTGGATCTCTTGGCCCTGTCAGCTGATGATGCTTGACCCAGCA 900
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3108 GAAGGCCCTTTGCTTGGATCTCTTGGCCCTGTCAGCTGATGATGCTTGACCCAGCA 3167
QY 901 CAACCTCAAGCAAAATGACCAAGCCCATGGATGATCCTGCAGATTATTAATGTTTGACCA 960
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3168 CAACCTCAAGCAAAATGACCAAGCCCATGGATGATCCTGCAGATTATTAATGTTTGACCA 3227
QY 961 TATTATGACCGCTGGAGCAAGAGCACAAATAATTTGGTCAACGTCCCTCTCTGCGTGA 1020
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3228 TATTATGACCGCTGGAGCAAGAGCACAAATAATTTGGTCAACGTCCCTCTCTGCGTGA 3287
QY 1021 TATGTGCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGACAGGGAGGATCCGCTG 1080
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3288 TATGTGCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGACAGGGAGGATCCGCTG 3347
QY 1081 CCTGTCTTTTAAACTGGCATATTTCCCTGTGTAAGCAATTTGGAAGACAAAGTACAG 1140
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3348 CCTGTCTTTTAAACTGGCATATTTCCCTGTGTAAGCAATTTGGAAGACAAAGTACAG 3407
QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTACCAAGCGGAGGCTGGGCT 1200
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3408 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTACCAAGCGGAGGCTGGGCT 3467
QY 1201 CCTTCTGCATGATCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGG 1260

Db 3468 CCTTCTGCATGATCTATCAAAATTCGAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGG 3527
QY 1261 CAGTAACATTGAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 1320
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
3528 CAGTAACATTGAGCCAAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 3587
QY 1321 C 1321
Db 3588 C 3588

RESULT 7
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 100.0%; Score 1321; DB 12; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCAGCAGTTTCAGAAAGCAGAACGATGTACATAGGGCCCTCAAGAGGGAATTGAA 60
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2451 CGACTTTCAGCAGTTTCAGAAAGCAGAACGATGTACATAGGGCCCTCAAGAGGGAATTGAA 2510
QY 61 AACTAAGAACCTGTATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGAGCA 120
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2511 AACTAAGAACCTGTATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGAGCA 2570
QY 121 GCCTTTGGAAGGACTAGAGAAACTCTACCAGGAGCCCAAGAGAGCTGCCTCCTGAGGAGAG 180
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2571 GCCTTTGGAAGGACTAGAGAAACTCTACCAGGAGCCCAAGAGAGAGCTGCCTCCTGAGGAGAG 2630
QY 181 AGCCAGAAATGTCACCTCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGA 240
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2631 AGCCAGAAATGTCACCTCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGA 2690
QY 241 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAGAAAAATAGATGAGACCCCTTGAAGACT 300
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2691 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAGAAAAATAGATGAGACCCCTTGAAGACT 2750
QY 301 CCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGAT 360
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2751 CCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGAT 2810
QY 361 CAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 420
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2811 CAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 2870
QY 421 GAAAGTCAAGGCACCTTCGAGGAGAAATTGCCCTCTGAAAGAGAACGTCGAGCCACGTCAC 480
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2871 GAAAGTCAAGGCACCTTCGAGGAGAAATTGCCCTCTGAAAGAGAACGTCGAGCCACGTCAC 2930
QY 481 TGACCTTGCTGCCAGCTTACCACCTTTGGGCAATTGAGCTCTCAGCTTACCGTATTAACCTCAGCAC 540
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
2931 TGACCTTGCTGCCAGCTTACCACCTTTGGGCAATTGAGCTCTCAGCTTACCGTATTAACCTCAGCAC 2990

QY 541 TCTGGAGACCTGAACACCAGATGGAAGCTTCTGCAGGTGGCGTCGAGGACCGAGTCAG 600
Db 2991 TCTGGAAGACCTGAACACCAGATGGAAGCTTCTGCAGGTGGCGTCGAGGACCGAGTCAG 3050
QY 601 GCAGCTGCATGAAGCCACACAGGACTTTGGTCCAGCATCTCAGACTTTCTTTCCACGTC 660
Db 3051 GCAGCTGCATGAAGCCACACAGGACTTTGGTCCAGCATCTCAGACTTTCTTTCCACGTC 3110
QY 661 TGTCCAGGTCCTGGGAGAGAGCCATCTGCCAAACAAAAGTGCCTACTATATCAACCA 720
Db 3111 TGTCCAGGTCCTGGGAGAGAGCCATCTGCCAAACAAAAGTGCCTACTATATCAACCA 3170
QY 721 CGAGACTCAAAACAACTGCTGGGACCATCCCAAAATGACAGAGTCTTACAGTCTTTAGC 780
Db 3171 CGAGACTCAAAACAACTGCTGGGACCATCCCAAAATGACAGAGTCTTACAGTCTTTAGC 3230
QY 781 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCA 840
Db 3231 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCA 3290
QY 841 GAAGGCCCTTTGCTTGGATCTCTTGAGCCCTGTCAGCTGCATGTGATGCCCTTGGACCA 900
Db 3291 GAAGGCCCTTTGCTTGGATCTCTTGAGCCCTGTCAGCTGCATGTGATGCCCTTGGACCA 3350
QY 901 CAACCTCAAGCAAAATGACAGCCCATGGATATCCTGAGATTATTAATTTGTTGACCAC 960
Db 3351 CAACCTCAAGCAAAATGACAGCCCATGGATATCCTGAGATTATTAATTTGTTGACCAC 3410
QY 961 TATTTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGA 1020
Db 3411 TATTTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAACGTCCTCTCTGCGTGA 3470
QY 1021 TATGTGCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTT 1080
Db 3471 TATGTGCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAAACAGGAGGATCCGTT 3530
QY 1081 CCTGTCTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAG 1140
Db 3531 CCTGTCTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAG 3590
QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCGCGCAGGCTGGGCCT 1200
Db 3591 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCGCGCAGGCTGGGCCT 3650
QY 1201 CTTTCTGCATGATTCATFCCAAATTCOAAGACAGTTGGGTGAAGTGCATCCTTTGGGG 1260
Db 3651 CTTTCTGCATGATTCATFCCAAATTCOAAGACAGTTGGGTGAAGTGCATCCTTTGGGG 3710
QY 1261 CAGTAACANTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 1320
Db 3711 CAGTAACANTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 3770
QY 1321 C 1321
Db 3771 C 3771

RESULT 8
US-09-845-416-31
; Sequence 31, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31

; LENGTH: 4476
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-31
Query Match 100.0%; Score 1321; DB 12; Length 4476;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CGACTTTCCAGCAGTTTCAGAGCAGAACGATCTACATAGGSCCTTCAAGAGGGAATTGAA 60
Db 2535 CGACTTTCCAGCAGTTTCAGAGCAGAACGATCTACATAGGSCCTTCAAGAGGGAATTGAA 2594
QY 61 AACTAAAGAACCCTGAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGACA 120
Db 2595 AACTAAAGAACCCTGAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGACA 2654
QY 121 GCCTTTGGAAGGACTAGAGAACTCTACCAGAGSCCCAGAGAGTGCCTCTGAGGAGAG 180
Db 2655 GCCTTTGGAAGGACTAGAGAACTCTACCAGAGSCCCAGAGAGTGCCTCTGAGGAGAG 2714
QY 181 AGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGG 240
Db 2715 AGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGG 2774
QY 241 AAATTTGAACCTGCCTCCGCTGACTGGCAGAGAAAATATAGATGAGACCCCTTGAAAG 300
Db 2775 AAATTTGAACCTGCCTCCGCTGACTGGCAGAGAAAATATAGATGAGACCCCTTGAAAG 2834
QY 301 CCAGGAACTTCAAGAGGCCACCGATGAGCTGAGGACCTCAAGTGCGCCAAGCTGAGTGA 360
Db 2835 CCAGGAACTTCAAGAGGCCACCGATGAGCTGAGGACCTCAAGTGCGCCAAGCTGAGTGA 2894
QY 361 CAAGGATCTTGGCAGCCCGTGGCGGATCTCTCATGACTCTCTCCAAGATCACCTGGA 420
Db 2895 CAAGGATCTTGGCAGCCCGTGGCGGATCTCTCATGACTCTCTCCAAGATCACCTGGA 2954
QY 421 GAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACGTCGAGCCACGTC 480
Db 2955 GAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACGTCGAGCCACGTC 3014
QY 481 TGACCTTGCTCGCCAGCTTACCCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCAC 540
Db 3015 TGACCTTGCTCGCCAGCTTACCCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCAC 3074
QY 541 TCTGGAAGACCTGAAACACACAGATGGAAGCTTCTGCAGGTGGCGTCGAGGACCGAGTC 600
Db 3075 TCTGGAAGACCTGAAACACACAGATGGAAGCTTCTGCAGGTGGCGTCGAGGACCGAGTC 3134
QY 601 GCAGTGCATGAAGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTC 660
Db 3135 GCAGTGCATGAAGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTC 3194
QY 661 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 720
Db 3195 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 3254
QY 721 CGAGACTCAAAACAACTTGTGGGACCATCCCAAAATGACAGAGTCTACAGTCTTTAGC 780
Db 3255 CGAGACTCAAAACAACTTGTGGGACCATCCCAAAATGACAGAGTCTACAGTCTTTAGC 3314
QY 781 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAACTCCGAGAGACTGCA 840
Db 3315 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAACTCCGAGAGACTGCA 3374
QY 841 GAAGGCCCTTTGCTTGGATCTCTTGAGCCCTGTCAGCTGCATGTGATGCCCTTGGACCA 900
Db 3375 GAAGGCCCTTTGCTTGGATCTCTTGAGCCCTGTCAGCTGCATGTGATGCCCTTGGACCA 3434
QY 901 CAACCTCAAGCAAAATGACAGCCCATGGATATCTCTGCAATATTAATTTGTTGACCAC 960
Db 3435 CAACCTCAAGCAAAATGACAGCCCATGGATATCTCTGCAATATTAATTTGTTGACCAC 3494

QY	961	TATTTATGACCGCCTGGAGCAAGAGCACAACAATTTGGTCAACGTCCTCTCTGCGTGA	1020
Db	3495	TATTTATGACCGCCTGGAGCAAGAGCACAACAATTTGGTCAACGTCCTCTCTGCGTGA	3554
QY	1021	TATGTGTCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAACAGAGGAGTCCGTGT	1080
Db	3555	TATGTGTCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAACAGAGGAGTCCGTGT	3614
QY	1081	CCGTCTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGGAAGACAAGTACAG	1140
Db	3615	CCGTCTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGGAAGACAAGTACAG	3674
QY	1141	ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCCT	1200
Db	3675	ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCCT	3734
QY	1201	CCTTCTGCATGATTTATCCAAATTCACACACAGTTGGGTGAAGTTGCATCCTTTGGGGG	1260
Db	3735	CCTTCTGCATGATTTATCCAAATTCACACACAGTTGGGTGAAGTTGCATCCTTTGGGGG	3794
QY	1261	CAGTAACATTGAGCCCAAGTGCCTGGAGCTGCTTCCAATTTGCTAATAAAGCCAGAGAT	1320
Db	3795	CAGTAACATTGAGCCCAAGTGCCTGGAGCTGCTTCCAATTTGCTAATAAAGCCAGAGAT	3854
QY	1321	C 1321	
Db	3855	C 3855	
RESULT 9			
US-09-845-416-30			
; Sequence 30, Application US/09845416			
; Publication No. US20030171312A1			
; GENERAL INFORMATION:			
; APPLICANT: XIAO, XIAO			
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE			
; TITLE OF INVENTION: THEREOF			
; FILE REFERENCE: DEL142			
; CURRENT APPLICATION NUMBER: US/09/845,416			
; CURRENT FILING DATE: 2001-04-30			
; PRIOR APPLICATION NUMBER: 60/200,777			
; PRIOR FILING DATE: 2000-04-28			
; NUMBER OF SEQ ID NOS: 36			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO 30			
; LENGTH: 4498			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-09-845-416-30			
Query Match			
Best Local Similarity 100.0%; Score 1321; DB 12; Length 4498;			
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1	CGACTTTCAGCAGTTCAGAACGAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAA	60
Db	2557	CGACTTTCAGCAGTTCAGAACGAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAA	2616
QY	61	AACTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCA	120
Db	2617	AACTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCA	2676
QY	121	GCCTTTGGAAGGACTAGAGAACTCTACAGAGCGCCAGAGAGCTGCCCTCTGAGGAGAG	180
Db	2677	GCCTTTGGAAGGACTAGAGAACTCTACAGAGCGCCAGAGAGCTGCCCTCTGAGGAGAG	2736
QY	181	AGCCAGAAATGTCAGTCCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGA	240
Db	2737	AGCCAGAAATGTCAGTCCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGA	2796
QY	241	AAAAATTGAACCTGCAGTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACT	300
Db	2797	AAAAATTGAACCTGCAGTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACT	2856

QY	301	CCAGGAACCTCAAGAGCCACGGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGAT	360
Db	2857	CCAGGAACCTCAAGAGCCACGGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGAT	2916
QY	361	CAAGGGATCTGGCAGCCCGTGGCGATCTCTCATGACTCTCTCCAAGATCACCTCGA	420
Db	2917	CAAGGGATCTGGCAGCCCGTGGCGATCTCTCATGACTCTCTCCAAGATCACCTCGA	2976
QY	421	GAAAGTCAAGGCACCTCGAGGAGAAATTCGCGCTCTGAAAGAGAGCTGAGCCAGTCAA	480
Db	2977	GAAAGTCAAGGCACCTCGAGGAGAAATTCGCGCTCTGAAAGAGAGCTGAGCCAGTCAA	3036
QY	481	TGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATATAACCTCAGCAC	540
Db	3037	TGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATATAACCTCAGCAC	3096
QY	541	TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAG	600
Db	3097	TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAG	3156
QY	601	GCAGCTGCATGAAGCCCAAGGACCTTTGGTCCAGCATCTCAGCATTTCTTTCCACGTC	660
Db	3157	GCAGCTGCATGAAGCCCAAGGACCTTTGGTCCAGCATCTCAGCATTTCTTTCCACGTC	3216
QY	661	TGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCA	720
Db	3217	TGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCA	3276
QY	721	CGAGACTCAAAACAACTTGCTGGGACCAATCCCAAAATGACAGAGCTTACCAGTCTTTAGC	780
Db	3277	CGAGACTCAAAACAACTTGCTGGGACCAATCCCAAAATGACAGAGCTTACCAGTCTTTAGC	3336
QY	781	TGACCTGAATAATGTGAGATCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA	840
Db	3337	TGACCTGAATAATGTGAGATCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA	3396
QY	841	GAAAGCCCTTTGCTTGGATCTTTGAGCCTGTGAGCTGTCATGTGATGCCCTTGGACGAGCA	900
Db	3397	GAAAGCCCTTTGCTTGGATCTTTGAGCCTGTGAGCTGTCATGTGATGCCCTTGGACGAGCA	3456
QY	901	CAACCTCAAGCAAAATGACCAGCCCATGGATATCCTGCGAGATTATTAATTGTTTGACCAC	960
Db	3457	CAACCTCAAGCAAAATGACCAGCCCATGGATATCCTGCGAGATTATTAATTGTTTGACCAC	3516
QY	961	TATTTATGACCGCCTGGAGCAAGAGCACAACAATTTGTCACAGTCCCTCTCTGCGTGGGA	1020
Db	3517	TATTTATGACCGCCTGGAGCAAGAGCACAACAATTTGTCACAGTCCCTCTCTGCGTGGGA	3576
QY	1021	TATGTGTCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGT	1080
Db	3577	TATGTGTCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGT	3636
QY	1081	CCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAG	1140
Db	3637	CCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAG	3696
QY	1141	ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCCT	1200
Db	3697	ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCCT	3756
QY	1201	CCTTCTGCATGATTTATCCAAATTCOAAGACAGTTGGGTGAAGTTGTCATCCTTTGGGGG	1260
Db	3757	CCTTCTGCATGATTTATCCAAATTCOAAGACAGTTGGGTGAAGTTGTCATCCTTTGGGGG	3816
QY	1261	CAGTAACATTGAGCCCAAGTCCGGAGCTGCTTCCAATTTGCTAATAAAGCCAGAGAT	1320
Db	3817	CAGTAACATTGAGCCCAAGTCCGGAGCTGCTTCCAATTTGCTAATAAAGCCAGAGAT	3876
QY	1321	C 1321	
Db	3877	C 3877	

RESULT 10
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 1321; DB 12; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTCCAGCAGTTCAGAAGCAGAACGATGTACATAGGGCCCTCAAGAGGGAATTGAA 60
Db 2884 CGACTTTCAGCAGTTCAGAAGCAGAACGATGTACATAGGGCCCTCAAGAGGGAATTGAA 2943

QY 61 AACTAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGCAGAGCA 120
Db 2944 AACTAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGCAGAGCA 3003

QY 121 GCCTTTGGAAGGACTAGAGAACTCTACCAGGAGCCAGAGAGTGCCTCCTCAGGAGAG 180
Db 3004 GCCTTTGGAAGGACTAGAGAACTCTACCAGGAGCCAGAGAGTGCCTCCTCAGGAGAG 3063

QY 181 AGCCOCAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGA 240
Db 3064 AGCCOCAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGA 3123

QY 241 AAAATTGAACCTGCACCTCCGCTGACTGGCCAGAGAAAATAGATGAGACCCCTTCAAAGACT 300
Db 3124 AAAATTGAACCTGCACCTCCGCTGACTGGCCAGAGAAAATAGATGAGACCCCTTCAAAGACT 3183

QY 301 CCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGAT 360
Db 3184 CCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGAT 3243

QY 361 CAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATGACTCTCTCCAAAGATCACCTCGA 420
Db 3244 CAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATGACTCTCTCCAAAGATCACCTCGA 3303

QY 421 GAAAGTCAGGCACCTTCAGAGGAGAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCAA 480
Db 3304 GAAAGTCAGGCACCTTCAGAGGAGAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCAA 3363

QY 481 TGACCTTCCTCGCCAGCTTACCACCTTGGGCATTCAGCTCTCAGCGTATAACCTCAGCAC 540
Db 3364 TGACCTTCCTCGCCAGCTTACCACCTTGGGCATTCAGCTCTCAGCGTATAACCTCAGCAC 3423

QY 541 TCTGGAAGACCTGAACACCAGATGGAAGCTTCTGCAAGGTGGCCGTCGAGGAGCCAGTCAG 600
Db 3424 TCTGGAAGACCTGAACACCAGATGGAAGCTTCTGCAAGGTGGCCGTCGAGGAGCCAGTCAG 3483

QY 601 GCAGCTGCATGAAGCCACAGGACTTGGTCCAGCATCTCAGCACTTCTTTCCACGTC 660
Db 3484 GCAGCTGCATGAAGCCACAGGACTTGGTCCAGCATCTCAGCACTTCTTTCCACGTC 3543

QY 661 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 720
Db 3544 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 3603

QY 721 CGAGACTCAAAACAACCTGCTGGGACCATCCCAAATGACAGAGCTCTACCACTTTAGC 780
Db 3604 CGAGACTCAAAACAACCTGCTGGGACCATCCCAAATGACAGAGCTCTACCACTTTAGC 3663

QY 781 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 840
Db 3664 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 3723

QY 841 GAAGGCCCTTTGCTTGGATCTCTGAGCCCTGTCAGCTGCATGTGATGCCCTGGACCAGCA 900
Db 3724 GAAGGCCCTTTGCTTGGATCTCTGAGCCCTGTCAGCTGCATGTGATGCCCTGGACCAGCA 3783

QY 901 CAACCTCAAGCAAAATGACCAGCCCATGGATCCTGCAGATTATTAATTGTTGACCAC 960
Db 3784 CAACCTCAAGCAAAATGACCAGCCCATGGATCCTGCAGATTATTAATTGTTGACCAC 3843

QY 961 TATTATGACCGCCTGGAGCAAGACACAACAATTTGGTCAACGCTCCCTCTCTCGTGGA 1020
Db 3844 TATTATGACCGCCTGGAGCAAGACACAACAATTTGGTCAACGCTCCCTCTCTCGTGGA 3903

QY 1021 TATGTCTCTGAACCTGCTGCTGATGTTTATGATACGGGACGACAGGGAGGATCCGCTGT 1080
Db 3904 TATGTCTCTGAACCTGCTGCTGATGTTTATGATACGGGACGACAGGGAGGATCCGCTGT 3963

QY 1081 CCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAG 1140
Db 3964 CCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAG 4023

QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTGTGACCAGCCGAGCTGGGCCT 1200
Db 4024 ATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTGTGACCAGCCGAGCTGGGCCT 4083

QY 1201 CCTTCTGCATGATTCATCCAAATCCAAAGACAGTTGGTGAAGTTGCATCCTTTGGGG 1260
Db 4084 CCTTCTGCATGATTCATCCAAATCCAAAGACAGTTGGTGAAGTTGCATCCTTTGGGG 4143

QY 1261 CAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 1320
Db 4144 CAGTAACATTGAGCCAAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 4203

QY 1321 C 1321
Db 4204 C 4204

RESULT 11
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 100.0%; Score 1321; DB 12; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCAGCAGTTCAGAAGCAGAACGATGTACATAGGGCCCTCAAGAGGGAATTGAA 60
Db 3544 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 603

Db 2907 CGACTTTCAGCAGCTTCAGAAAGCAGAAACGATGATACATAGGSCCTTCAAGAGGGAATTGAA 2966

QY 61 AACTAAAGAACCTGTAAATCATGAGTACTCTTCAGAGACTGTACGAATATTTCTGACAGAGCA 120

Db 2967 AACTAAAGAACCTGTAAATCATGAGTACTCTTCAGAGACTGTACGAATATTTCTGACAGAGCA 3026

QY 121 GCCTTTGGAAGGACTAGAGAAACTCTACAGAGCCCGAGAGSCTGCCCTCTGAGGAGAG 180

Db 3027 GCCTTTGGAAGGACTAGAGAAACTCTACAGAGCCCGAGAGSCTGCCCTCTGAGGAGAG 3086

QY 181 AGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTTCAATACTGAGTGGGA 240

Db 3087 AGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTTCAATACTGAGTGGGA 3146

QY 241 AAAATTGAACCTCGACTCCGCTGACTGGCAGAGAAATAATAGATGAGACCCCTTGAAAGACT 300

Db 3147 AAAATTGAACCTCGACTCCGCTGACTGGCAGAGAAATAATAGATGAGACCCCTTGAAAGACT 3206

QY 301 CCAGGAACCTTCAGAGGCCACCGATGAGCTGGGACCTCAAGTGGCCCAAGCTGAGGTGAT 360

Db 3207 CCAGGAACCTTCAGAGGCCACCGATGAGCTGGGACCTCAAGTGGCCCAAGCTGAGGTGAT 3266

QY 361 CAAGGATCCTGGCAGCCCGTGGGCGATCTCTCATATTGACTCTCTCCAAAGTACACCTCGA 420

Db 3267 CAAGGATCCTGGCAGCCCGTGGGCGATCTCTCATATTGACTCTCTCCAAAGTACACCTCGA 3326

QY 421 GAAAGTCAAGGCACTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCAA 480

Db 3327 GAAAGTCAAGGCACTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCAA 3386

QY 481 TGACCTTGCTCGCCAGCTTACCCTTTGGGCATTCAGCTCTCACCGTATATACCTCAGCAC 540

Db 3387 TGACCTTGCTCGCCAGCTTACCCTTTGGGCATTCAGCTCTCACCGTATATACCTCAGCAC 3446

QY 541 TCTGGAAGACCTGAAACACACAGATGGAAGCTTCTGCAGGTGGCGTGCAGGACCGAGTCAG 600

Db 3447 TCTGGAAGACCTGAAACACACAGATGGAAGCTTCTGCAGGTGGCGTGCAGGACCGAGTCAG 3506

QY 601 GCAGTGCATGAAGCCACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTC 660

Db 3507 GCAGTGCATGAAGCCACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTC 3566

QY 661 TGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCAAAACAAAGTGCCTTACATATATCAACCA 720

Db 3567 TGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCAAAACAAAGTGCCTTACATATATCAACCA 3626

QY 721 CGAGACTCAAAACAATGCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGC 780

Db 3627 CGAGACTCAAAACAATGCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGC 3686

QY 781 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 840

Db 3687 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 3746

QY 841 GAAGGCCCTTTGCTTGGATCTCTTGAGCCCTGTGAGCTGCATGTGATGCCCTGGACCCAGCA 900

Db 3747 GAAGGCCCTTTGCTTGGATCTCTTGAGCCCTGTGAGCTGCATGTGATGCCCTGGACCCAGCA 3806

QY 901 CAACCTCAAGCAAAATGACCGCCATGGATTCCTGCAGATTATTAATGTTTGACCCAC 960

Db 3807 CAACCTCAAGCAAAATGACCGCCATGGATTCCTGCAGATTATTAATGTTTGACCCAC 3866

QY 961 TATTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAACGTCCCTCTGTCGGTGGGA 1020

Db 3867 TATTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAACGTCCCTCTGTCGGTGGGA 3926

QY 1021 TATGTGCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAGGAGGATCCGCTGT 1080

Db 3927 TATGTGCTGAAGTGGCTGCTGAATGTTTATGATACGGGACGAGGAGGATCCGCTGT 3986

QY 1081 CCTGTCTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAG 1140

Db 3987 CCTGTCTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAG 4046

QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGGATTTTGTGACCAGCGCAGGCTGGSCCT 1200

Db 4047 ATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGGATTTTGTGACCAGCGCAGGCTGGSCCT 4106

QY 1201 CCTTCTGCATGATCTATCCAAAATCCAAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGG 1260

Db 4107 CCTTCTGCATGATCTATCCAAAATCCAAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGG 4166

QY 1261 CAGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAAAGCCAGAGAT 1320

Db 4167 CAGTAACATTGAGCCCAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAAAGCCAGAGAT 4226

QY 1321 C 1321

Db 4227 C 4227

RESULT 12

US-09-845-416-28

; Sequence 28, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE REFERENCE: DEL1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn ver. 2.1

; SEQ ID NO 28

; LENGTH: 4966

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-28

Query Match 100.0%; Score 1321; DB 12; Length 4966;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCAGCAGTTTCAGAGCAGAACGATGTACATAGGSCCTTCAAGAGGGAATTGAA 60

Db 3025 CGACTTTCAGCAGTTTCAGAGCAGAACGATGTACATAGGSCCTTCAAGAGGGAATTGAA 3084

QY 61 AACTAAAGAACCTGTAAATCATGAGTACTCTTCAGAGACTGTACGAATATTTCTGACAGAGCA 120

Db 3085 AACTAAAGAACCTGTAAATCATGAGTACTCTTCAGAGACTGTACGAATATTTCTGACAGAGCA 3144

QY 121 GCCTTTGGAAGGACTAGAGAAACTCTACCAGAGCCCGAGAGSCTGCCCTCTGAGGAGAG 180

Db 3145 GCCTTTGGAAGGACTAGAGAAACTCTACCAGAGCCCGAGAGSCTGCCCTCTGAGGAGAG 3204

QY 181 AGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTTCAATACTGAGTGGGA 240

Db 3205 AGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTTCAATACTGAGTGGGA 3264

QY 241 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAATAATAGATGAGACCCCTTGAAAGACT 300

Db 3265 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAATAATAGATGAGACCCCTTGAAAGACT 3324

QY 301 CCAGGAACCTTCAGAGGCCACCGATGAGCTGAGCTCCAGCTCGCCCAAGCTGAGGTGAT 360

Db 3325 CCAGGAACCTTCAGAGGCCACCGATGAGCTGAGCTCCAGCTCGCCCAAGCTGAGGTGAT 3384

QY 361 CAAGGATCCTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 420

Db 3385 CAAGGATCCTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 3444

QY 421 GAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCCTCTGAAAGAGAACGTGAGCCACGTCAA 480

Db 3445 GAAAGTCAAGGCACCTTCGAGGAGAAATTGGCCCTGAAAGAGACGTGAGCCACGTCAA 3504
QY 481 TGACCTTGTGCGCCAGCTTACCACCTTGGGCATTCAGCTCTCACCCTATTAACCTCAGCAC 540
Db 3505 TGACCTTGTGCGCCAGCTTACCACCTTGGGCATTCAGCTCTCACCCTATTAACCTCAGCAC 3564
QY 541 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCCCTGAGGACCGAGTCAG 600
Db 3565 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCCCTGAGGACCGAGTCAG 3624
QY 601 GCAGCTGCATGAAGCCACACAGGACTTTGGTCCAGCATCTCAGACTTCTTCCACGTC 660
Db 3625 GCAGCTGCATGAAGCCACACAGGACTTTGGTCCAGCATCTCAGACTTCTTCCACGTC 3684
QY 661 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAGTGGCCCTACTATATCAACCA 720
Db 3685 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAGTGGCCCTACTATATCAACCA 3744
QY 721 CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGAGTCTTACCAGTCTTTAGC 780
Db 3745 CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGAGTCTTACCAGTCTTTAGC 3804
QY 781 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCA 840
Db 3805 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCA 3864
QY 841 GAAGGCCCTTTGCTTGGATCTCTCAGCCCTGTGAGCTGCATGATGCCCTTGACCCAGCA 900
Db 3865 GAAGGCCCTTTGCTTGGATCTCTCAGCCCTGTGAGCTGCATGATGCCCTTGACCCAGCA 3924
QY 901 CAACCTCAAGCAAAATGACAGCCCATGGATATCTGTCAGATTATTAATTTGACCCAC 960
Db 3925 CAACCTCAAGCAAAATGACAGCCCATGGATATCTGTCAGATTATTAATTTGACCCAC 3984
QY 961 TATTTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAACCTCCCTCTCTGCGTGGGA 1020
Db 3985 TATTTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAACCTCCCTCTCTGCGTGGGA 4044
QY 1021 TATGTCGTGAACCTGGCTGCTGAATGTTTATGATACGGGACGACAGGGAGGATCCGCTG 1080
Db 4045 TATGTCGTGAACCTGGCTGCTGAATGTTTATGATACGGGACGACAGGGAGGATCCGCTG 4104
QY 1081 CCTGTCTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAG 1140
Db 4105 CCTGTCTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGTACAG 4164
QY 1141 ATACCTTTCAAGCAAGTGGCAAGTTCACAGGATTTGTGACAGCGCAGGCTGGGCCCT 1200
Db 4165 ATACCTTTCAAGCAAGTGGCAAGTTCACAGGATTTGTGACAGCGCAGGCTGGGCCCT 4224
QY 1201 CCTTCTGCATGATTCATCCAAATTCACAGACAGTGGGTGAAGTGCATCCTTTGGGGG 1260
Db 4225 CCTTCTGCATGATTCATCCAAATTCACAGACAGTGGGTGAAGTGCATCCTTTGGGGG 4284
QY 1261 CAGTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAAATTTGCTTAATAATAAGCCAGAGAT 1320
Db 4285 CAGTAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAAATTTGCTTAATAATAAGCCAGAGAT 4344
QY 1321 C 1321
Db 4345 C 4345

RESULT 13
US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312a1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845/416

; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 1321; DB 12; Length 4990;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CGACTTCCAGCAGTTCAGAAGCAGAACGATGACATAGGGCTTCAAGAGGGAATTGAA 60
Db 3049 CGACTTCCAGCAGTTCAGAAGCAGAACGATGACATAGGGCTTCAAGAGGGAATTGAA 3108
QY 61 AACTAAAGAACCTGTAATCATGATGACTCTTTGAGACTGTACGAATATTTCTGACAGAGCA 120
Db 3109 AACTAAAGAACCTGTAATCATGATGACTCTTTGAGACTGTACGAATATTTCTGACAGAGCA 3168
QY 121 GCCTTTGGAAGGACTAGAGAAACTCTACCAGGAGCCCGCAGAGAGCTGCCTCCTGAGGAGAG 180
Db 3169 GCCTTTGGAAGGACTAGAGAAACTCTACCAGGAGCCCGCAGAGAGCTGCCTCCTGAGGAGAG 3228
QY 181 AGCCACAGAATGTCACCTCGGCTTCTAGGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGA 240
Db 3229 AGCCACAGAATGTCACCTCGGCTTCTAGGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGA 3288
QY 241 AAAATTGAACCTGCACCTCGCTGACTGGCAGAGAGAAAATAGATGAGACCCCTTGAAAGACT 300
Db 3289 AAAATTGAACCTGCACCTCGCTGACTGGCAGAGAGAAAATAGATGAGACCCCTTGAAAGACT 3348
QY 301 CCAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGAT 360
Db 3349 CCAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGAT 3408
QY 361 CAAGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 420
Db 3409 CAAGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 3468
QY 421 GAAAGTCAAGGCACCTTCGAGGAGAAATTTGGCCCTTGAAAGAGAACGTGAGCCACGTCAA 480
Db 3469 GAAAGTCAAGGCACCTTCGAGGAGAAATTTGGCCCTTGAAAGAGAACGTGAGCCACGTCAA 3528
QY 481 TGACCTTGTCTGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATACCTCAGCAC 540
Db 3529 TGACCTTGTCTGCCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATACCTCAGCAC 3588
QY 541 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCCCTGAGGACCGAGTCAG 600
Db 3589 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCCCTGAGGACCGAGTCAG 3648
QY 601 GCAGCTGCATGAAGCCACACAGGACTTTGGTCCAGCATCTCAGACACTTTCTTTCCACGTC 660
Db 3649 GCAGCTGCATGAAGCCACACAGGACTTTGGTCCAGCATCTCAGACACTTTCTTTCCACGTC 3708
QY 661 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAGTGGCCCTACTATATCAACCA 720
Db 3709 TGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAACAAGTGGCCCTACTATATCAACCA 3768
QY 721 CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGAGTCTTACCAGTCTTTAGC 780
Db 3769 CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGAGTCTTACCAGTCTTTAGC 3828
QY 781 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCA 840
Db 3829 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCA 3888
QY 841 GAAGGCCCTTTGCTTGGATCTCTGAGCCCTGTGAGCTGCATGATGCCCTTGACCCAGCA 900

Db 4379 CAGTACATTGAGCCBAGTGTCCGGAGCTGCTTCCAATTGGCTAATAAAGCCAGAGAT 4438
QY 1321 C 1321
Db 4439 C 4439

RESULT 15
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 100.0%; Score 1321; DB 12; Length 5149;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCAGCAGTTCAGAAAGCAGACGATGTACATAGGGCCCTCAAGAGGGGAATTGAA 60
Db 3208 CGACTTTCAGCAGTTCAGAAAGCAGACGATGTACATAGGGCCCTCAAGAGGGGAATTGAA 3267

QY 61 AACTAAAGAACCTGTATCATCATGACTACTCTTGAGACTGTACGAATATTTCTGCACAGACA 120
Db 3268 AACTAAAGAACCTGTATCATCATGACTACTCTTGAGACTGTACGAATATTTCTGCACAGACA 3327

QY 121 GCCTTTGGAGGACTAGAGAAACTCTACCAGGAGGCCAGAGAGCTGCCTCCTGAGGAGAG 180
Db 3328 GCCTTTGGAGGACTAGAGAAACTCTACCAGGAGGCCAGAGAGCTGCCTCCTGAGGAGAG 3387

QY 181 AGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGA 240
Db 3388 AGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGA 3447

QY 241 AAAATTGAACCTGCACCTCGCTGACTGGCAGAGAAATAAGATGAGACCCCTTGAAGAAGACT 300
Db 3448 AAAATTGAACCTGCACCTCGCTGACTGGCAGAGAAATAAGATGAGACCCCTTGAAGAAGACT 3507

QY 301 CCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGAT 360
Db 3508 CCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGAT 3567

QY 361 CAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 420
Db 3568 CAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGA 3627

QY 421 GAAAGTCAAGGCACTTCGAGGAGAAAATTGGCGCTCTGAAAGAGAACGTGAGCCACGTCAA 480
Db 3628 GAAAGTCAAGGCACTTCGAGGAGAAAATTGGCGCTCTGAAAGAGAACGTGAGCCACGTCAA 3687

QY 481 TGACCTTGTCCGCCAGCTTACCACCTTTGGGCATTCAGCTCTACCCGATTAACCTCAGCAC 540
Db 3688 TGACCTTGTCCGCCAGCTTACCACCTTTGGGCATTCAGCTCTACCCGATTAACCTCAGCAC 3747

QY 541 TCTGGAAGACCTGAACACCCAGATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAG 600
Db 3748 TCTGGAAGACCTGAACACCCAGATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAG 3807

QY 601 GCAGCTGCATGAAGCCCAAGGGGACTTTTGGTCCAGCATCTCAGCACATTCTTTCCACGTC 660

Db 3808 GCAGTGCATGAAGCCCAAGGCACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTC 3867
QY 661 TGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAGTGCCTTACTATATCAACCA 720
Db 3868 TGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAGTGCCTTACTATATCAACCA 3927

QY 721 CGAGACTCAAAACAACTTGTCTGGGACCATCCAAAATGACACAGACTCTACCAGTCTTTAGC 780
Db 3928 CGAGACTCAAAACAACTTGTCTGGGACCATCCAAAATGACACAGACTCTACCAGTCTTTAGC 3987

QY 781 TGACCTGAATAATGTCTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 840
Db 3988 TGACCTGAATAATGTCTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 4047

QY 841 GAAGGCCCTTTGTCTGGATCTCTGAGCCCTGTCAGCTGTCATGTGATGCCCTGGACCAGCA 900
Db 4048 GAAGGCCCTTTGTCTGGATCTCTGAGCCCTGTCAGCTGTCATGTGATGCCCTGGACCAGCA 4107

QY 901 CAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCTCAGATTATTAATGTTTGACCAC 960
Db 4108 CAACCTCAAGCAAAATGACCAAGCCCATGGATATCTCTCAGATTATTAATGTTTGACCAC 4167

QY 961 TATTATGACCGCCTGGAGCAAGAGCACAAACAATTTGGTCAACGTCCTCTCTCGGTGGA 1020
Db 4168 TATTATGACCGCCTGGAGCAAGAGCACAAACAATTTGGTCAACGTCCTCTCTCGGTGGA 4227

QY 1021 TATGTCTGAACCTGGCTGCTGATGTTTATGATACGGGAGCAACAGGGAGGATCCGTC 1080
Db 4228 TATGTCTGAACCTGGCTGCTGATGTTTATGATACGGGAGCAACAGGGAGGATCCGTC 4287

QY 1081 CCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAAGCAAGTACAG 1140
Db 4288 CCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAAGCAAGTACAG 4347

QY 1141 ATACCTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCAGCGCAGCTGGGCCT 1200
Db 4348 ATACCTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCAGCGCAGCTGGGCCT 4407

QY 1201 CCTTCTGCATGATTCTATCCAAATTCAGACAGTGGGTGGAAGTTCATCCTTTGGGG 1260
Db 4408 CCTTCTGCATGATTCTATCCAAATTCAGACAGTGGGTGGAAGTTCATCCTTTGGGG 4467

QY 1261 CAGTAAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 1320
Db 4468 CAGTAAACATTGAGCCCAAGTGTCCGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGAT 4527

QY 1321 C 1321
Db 4528 C 4528

Search completed: September 24, 2003, 11:52:00
Job time : 310.721 secs

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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 ; Search time 112.947 Seconds
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query %			DB ID	Description
	Score	Match	Length		
1	1328.8	65.1	5952	4 US-09-687-875A-1	Sequence 1, Appli
2	1317.8	64.6	13977	4 US-09-484-970B-60	Sequence 60, Appl
c 3	1149.6	56.3	19307	3 US-08-836-022A-10	Sequence 10, Appl
c 4	1149.6	56.3	19307	3 US-09-427-048A-10	Sequence 10, Appl
5	547.4	26.8	6045	4 US-09-091-501B-7	Sequence 7, Appli
6	547.4	26.8	10320	4 US-09-091-501B-9	Sequence 9, Appli
7	79.4	3.9	200	4 US-09-091-501B-5	Sequence 5, Appli
8	78.6	3.9	200	4 US-09-091-501B-4	Sequence 4, Appli
9	78.6	3.9	200	4 US-09-091-501B-6	Sequence 6, Appli
c 10	76.6	3.8	7218	1 US-08-232-463-14	Sequence 14, Appl
11	44.2	2.2	2574	4 US-09-668-313A-10	Sequence 10, Appl
c 12	44	2.2	1230025	4 US-09-198-452A-1	Sequence 1, Appli
13	43.4	2.1	1179	4 US-09-107-532A-1186	Sequence 1186, Ap
14	42.8	2.1	1690	4 US-09-620-312D-69	Sequence 69, Appl
15	42.8	2.1	7812	3 US-09-368-590-1	Sequence 1, Appli
16	40.4	2.0	2223	1 US-08-257-073-4	Sequence 4, Appli
17	39.2	1.9	16995	4 US-08-961-527-82	Sequence 82, Appl
18	38.6	1.9	1995	1 US-08-425-069-3	Sequence 3, Appli
19	38.6	1.9	1995	2 US-08-317-844B-3	Sequence 3, Appli
20	38.4	1.9	7672	4 US-09-220-132-24	Sequence 24, Appl
21	38.2	1.9	428	4 US-09-668-313A-3	Sequence 3, Appli
22	38.2	1.9	1131	6 5180810-3	Patent No. 5180810
23	38.2	1.9	1784	6 5180810-2	Patent No. 5180810
24	38.2	1.9	4439	4 US-09-668-313A-17	Sequence 17, Appl
c 25	38	1.9	1394	4 US-09-247-155-76	Sequence 76, Appl
26	36.8	1.8	1886	6 5210183-1	Patent No. 5210183
27	36.6	1.8	1845	4 US-08-887-534A-22	Sequence 22, Appl

28	36.6	1.8	1845	4 US-09-527-431-22	Sequence 22, Appl
29	36.2	1.8	289	3 US-09-007-005-17	Sequence 17, Appl
30	36.2	1.8	289	3 US-09-244-796-17	Sequence 17, Appl
31	36.2	1.8	2447	2 US-09-014-969-14	Sequence 14, Appl
32	36.2	1.8	168575	4 US-09-426-290-1	Sequence 1, Appli
33	36	1.8	2873	4 US-08-630-915A-193	Sequence 193, App
34	35.8	1.8	790	3 US-09-461-474-13	Sequence 13, Appl
35	35.6	1.7	4868	1 US-08-139-937-12	Sequence 12, Appl
36	35.6	1.7	4868	5 PCT-US93-11310-12	Sequence 12, Appl
37	35.6	1.7	8257	4 US-09-595-684B-30	Sequence 30, Appl
38	35.6	1.7	8789	1 US-08-328-254-5	Sequence 5, Appli
39	35.6	1.7	10136	1 US-08-353-700-2	Sequence 2, Appli
40	35.6	1.7	10136	5 PCT-US95-16216-2	Sequence 2, Appli
41	35.2	1.7	3466	1 US-08-468-036-38	Sequence 38, Appl
42	35.2	1.7	3466	2 US-08-376-843-38	Sequence 38, Appl
43	35	1.7	4766	5 PCT-US93-07261-10	Sequence 10, Appl
44	34.8	1.7	714	4 US-09-328-352-4055	Sequence 4055, Ap
45	34.8	1.7	1453	4 US-08-714-741-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLICE
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc_feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match	65.1%	Score	1328.8	DB	4	Length	5952
Best Local Similarity	99.5%	Pred. No.	0				
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Gaps	0						
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Db	3284	GGTCCCATTTGGAAGCCAGTTCTGACCAGTGGAGCGTCTGCACCTTCTCTGCAGGAAC	3343				
QY	762	TTCTGGTGGCTACAGCTGAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCG	821				
Db	3344	TTCTGGTGGCTACAGCTGAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCG	3403				
QY	822	ACTTCCAGCAGTTTCAGAACGACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAA	881				
Db	3404	ACTTCCAGCAGTTTCAGAACGACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAA	3463				
QY	882	CTAAGAACCCTGTATCATGACTCTTGGAGACTGTACGATATTTCTGACAGAGCAGC	941				
Db	3464	CTAAGAACCCTGTATCATGACTCTTGGAGACTGTACGATATTTCTGACAGAGCAGC	3523				
QY	942	CTTTGGAAGGACTAGAGAACTCTACCAGGAGCCAGAGAGTGCCTCCTGAGGAGAG	1001				

Db 3524 CTTTGAAGGACTAGAGAAACTCTACCAAGAGCCAGAGAGCTGCCTCTGAGGAGAGAG 3583

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Db 3584 CCCAGAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAA 3643

QY 1062 AATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCC 1121

Db 3644 AATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCC 3703

QY 1122 AGGACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGTGAGGTGATCA 1181

Db 3704 AGGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGTGAGGTGATCA 3763

QY 1182 AGGATCCTGGCAGCCCGTGGCGGATCTCTCAATTGACTCTCTCAAGATCACCTCGAGA 1241

Db 3764 AGGATCCTGGCAGCCCGTGGCGGATCTCTCAATTGACTCTCTCAAGATCACCTCGAGA 3823

QY 1242 AAGTCAAGGCACCTCGAGGAGAAATTGCGCTCTGAAAGAGAACGTGAGCCACGTCAATG 1301

Db 3824 AAGTCAAGGCACCTCGAGGAGAAATTGCGCTCTGAAAGAGAACGTGAGCCACGTCAATG 3883

QY 1302 ACCTTGCTGCGCAGCTTACCACCTTGGGCATTCAGCTCTCACCGTATACCTCAGCACTC 1361

Db 3884 ACCTTGCTGCGCAGCTTACCACCTTGGGCATTCAGCTCTCACCGTATACCTCAGCACTC 3943

QY 1362 TGGAAAGACCTGAACACCCAGATGGAAGCTTCTGCAAGTGGCGCTCGAGGACCGAGTCAGGC 1421

Db 3944 TGGAAAGACCTGAACACCCAGATGGAAGCTTCTGCAAGTGGCGCTCGAGGACCGAGTCAGGC 4003

QY 1422 AGTGTCATGAAGCCACAGGACTTGGTTCAGCATCTCAGCACTTTCTTCCACGCTG 1481

Db 4004 AGTGTCATGAAGCCACAGGACTTGGTTCAGCATCTCAGCACTTTCTTCCACGCTG 4063

QY 1482 TCAGAGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACGAG 1541

Db 4064 TCAGAGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACGAG 4123

QY 1542 AGACTCAAAACAATGCTGGGACCATCCCAAATGACAGAGCTCTACCACTCTTTAGCTG 1601

Db 4124 AGACTCAAAACAATGCTGGGACCATCCCAAATGACAGAGCTCTACCACTCTTTAGCTG 4183

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Db 4184 ACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGA 4243

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Db 4304 ACCTCAAGCAAAATGACCAAGCCATGGATATCCTGCAATATTAATTTGTGACCACTA 4363

QY 1782 TTATGACCGCCCTGGAGCAAGACCAACAATTTGGTCAAGCTCCCTCTCTGCGTGGATA 1841

Db 4364 TTATGACCGCCCTGGAGCAAGACCAACAATTTGGTCAAGCTCCCTCTCTGCGTGGATA 4423

QY 1842 TGCTCTGAACCTGGCTGCTGAATGTTTATGATACGGGACCAAGAGGATCCGTGTC 1901

Db 4424 TGCTCTGAACCTGGCTGCTGAATGTTTATGATACGGGACCAAGAGGATCCGTGTC 4483

QY 1902 TGCTCTTAAACTGGCATCAATTCCTGTGTAAGGACATTTGGAAGACAAGTACAGAT 1961

Db 4484 TGCTCTTAAACTGGCATCAATTCCTGTGTAAGGACATTTGGAAGACAAGTACAGAT 4543

QY 1962 ACCCTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCAAGCGGAGCTGGCCCTCC 2021

Db 4544 ACCCTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCAAGCGGAGCTGGCCCTCC 4603

QY 2022 TTCTGCATGATTTCTATCCAA 2041

Db 4604 TTCTGCATGATTTCTATCCAA 4623

RESULT 2

US-09-484-970B-60

; Sequence 60, Application US/09484970B

; Patent No. 6426186

; GENERAL INFORMATION:

; APPLICANT: Jones, Karen A.

; APPLICANT: Volkmut, Wayne

; APPLICANT: Walker, Michael G.

; TITLE OF INVENTION: BONE REMODELING GENES

; FILE REFERENCE: PB-0014 US

; CURRENT APPLICATION NUMBER: US/09/484,970B

; CURRENT FILING DATE: 2000-01-18

; NUMBER OF SEQ ID NOS: 172

; SOFTWARE: PERL Program

; SEQ ID NO 60

; LENGTH: 13977

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1

; NAME/KEY: unsure

; LOCATION: 11721-11761, 12294, 13969

; OTHER INFORMATION: a, t, c, g, or other

US-09-484-970B-60

Query Match 64.6%; Score 1317.8; DB 4; Length 13977;

Best Local Similarity 99.4%; Pred. No. 0;

Matches 1333; Conservative 0; Mismatches 7; Indels 1; Gaps 1;

QY 702 GGGTCTTTTACAAGACAGTCTTGACCAAGTGGAGCGTCTGCACCTTCTCTGCAGAAC 761

Db 8598 GGTCCCAATTTGGAAGCCAGTCTTGACCAAGTGGAGCGTCTGCACCTTCTCTGCAGAAC 8657

QY 762 TTCTGGTGTGGCTACAGCTGAAAAGATGATGAATTAACCGGCGAGGACCTATTGGAGCG 821

Db 8658 TTCTGGTGTGGCTACAGCTGAAAAGATGATGAATTAACCGGCGAGGACCTATTGGAGCG 8717

QY 822 ACTTCCAGCAGTTTCAAGACAGAACGATGTACATAGGCGCTTCAAGAGGGAATGAAAA 881

Db 8718 ACTTCCAGCAGTTTCAAGACAGAACGATGTACATAGGCGCTTCAAGAGGGAATGAAAA 8777

QY 882 CTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTGACGAATATTTCTGACAGAGCAG 941

Db 8778 CTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTGACGAATATTTCTGACAGAGCAG 8837

QY 942 CTTTGGAGGACTAGAGAAACTCTACCAGGAGCCCAAGAGAGCTGCCCTCTGAGGAGAGAG 1001

Db 8838 CTTTGGAGGACTAGAGAAACTCTACCAGGAGCCCAAGAGAGCTGCCCTCTGAGGAGAGAG 8897

QY 1002 CCCAGAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATPACTGAGTGGGAAA 1061

Db 8898 CCCAGAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATPACTGAGTGGGAAA 8957

QY 1062 AATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCC 1121

Db 8958 AATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCC 9017

QY 1122 AGGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCA 1181

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Db 9078 AGGATCCTGGCAGCCCGTGGGGGATCTCCTCATTTGACTCTCTCCCAAGATCACCTCGAGA 9137

QY 1242 AAGTCAAGGCACTTCGAGGAGAAATTGCGCTCTTGAAGAGAACGTGAGCCACGTCAATG 1301

Db 9138 AAGTCAAGGCACTTCGAGGAGAAATTGCGCTCTTGAAGAGAACGTGAGCCACGTCAATG 9197

QY 1302 ACCTTGCTCGCAGCTTACCACCTTTGGGCAATTCAGCTCTCACCGTATACCTTCAGCACTC 1361

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Db 1198 ACCTTGCTGCGCAGCTTACCACTTTGGGCATTCAGCTCTACCGTATAACCTCAGCACTC 9257
QY 1362 TGAAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGC 1421
Db 9258 TGAAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGC 9317
QY 1422 AGCTGCATGAAGCCCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCAGCTCTG 1481
Db 9318 AGCTGCATGAAGCCCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCAGCTCTG 9377
QY 1482 TCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAG 1541
Db 9378 TCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAG 9437
QY 1542 AGACTCAAAACAACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTG 1601
Db 9438 AGACTCAAAACAACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTG 9497
QY 1602 ACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAACTCCGAAGACTGCAGA 1661
Db 9498 ACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAACTCCGAAGACTGCAGA 9557
QY 1662 AGGCCCTTTGCTGGATCTCTGAGCCTGTCAGCTGCATGTGATGCTTGGACCAACACA 1721
Db 9558 AGGCCCTTTGCTGGATCTCTGAGCCTGTCAGCTGCATGTGATGCTTGGACCAACACA 9617
QY 1722 ACCTCAAGCBAATGACCGCCCATGGATATCCTGCAGATTATTAATGTTTGACCACTA 1781
Db 9618 ACCTCAAGCBAATGACCGCCCATGGATATCCTGCAGATTATTAATGTTTGACCACTA 9677
QY 1782 TTTATGACCGCTGGAGCAAGAGACACAAATTTGGTCAACGTCCCTCTCTGCGTGGATA 1841
Db 9678 TTTATGACCGCTGGAGCAAGAGACACAAATTTGGTCAACGTCCCTCTCTGCGTGGATA 9737
QY 1842 TGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGATCCGTCTCC 1901
Db 9738 TGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGATCCGTCTCC 9797
QY 1902 TGTCTTTTAAACTGGCAATCATTTCCCTGTGTAAAGCACATTTGGAGACAAAGTACAGAT 1961
Db 9798 TGTCTTTTAAACTGGCAATCATTTCCCTGTGTAAAGCACATTTGGAGACAAAGTACAGAT 9857
QY 1962 ACCTTTTCAAGCAAGTGGCAAGTTTCAACAGGATTTTGTGACCAGCGGAGGCT-GGGCTC 2020
Db 9858 ACCTTTTCAAGCAAGTGGCAAGTTTCAACAGGATTTTGTGACCAGCGGAGGCTGGGCTC 9917
QY 2021 CTTCTGCATGATCTATCCAA 2041
Db 9918 CTTCTGCATGATCTATCCAA 9938
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RESULT 3

US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 600157

GENERAL INFORMATION:

; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVPN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA
US-08-836-022A-10

Query Match 56.3%; Score 1149.6; DB 3; Length 19307;
Best Local Similarity 91.1%; Pred. No. 0;
Matches 1221; Conservative 0; Mismatches 119; Indels 0; Gaps 0;

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Db 6096 GGTCCCATTTGGAAGCAAGTTCTGACCAGTGGAGCGTTTGCATCTTCTCTTCAGGAAC 6037
QY 762 TTCTGGTGTGGTACAGCTGAAAGATGATGAATTAAGCCGGCAGCACCTATTGGAGCG 821
Db 6036 TTCTTGTGTGGTACAGCTGAAAGATGATGAATTAAGCCGGTACGACCCCATCGGTGGTG 5977
QY 822 ACTTTCAGACAGTTTCAAGACGAGACCATGTACATAGGCGCTTCAAGAGGGAATTGAAA 881
Db 5976 ATTTCACAGAGTTTCAAGACGAGATGATATACATAGGCGCTTCAAGAGGGAATTGAAA 5917
QY 882 CTAAAGAACTGTATCATGAGTACTCTTGAGACTGTGAGCTGACGAATATTTCTGACAGAGCAG 941
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QY 942 CTTTGGAGGACTAGAGAAAACCTCTACGAAAGCAGGTCGAGGAGGTCAATACTAGTGGGAAA 1061
Db 5856 CTTTGGAGGACTAGAGAAAACCTCTACGAAAGCAGGTCGAGGAGGTCAATACTAGTGGGAAA 5737
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Db 5736 AATTGAACCTGCATCCGCTGACTGGCAGAGAAAATAGATGAGAGCTCTTGAAGAGACTCC 5677
QY 1122 AGGAACCTCAAGAGGCGCAGGATGAGCTGGACCTCAAGCTGGCGAAGCTGAGGTGATCA 1181
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QY 1242 AAGTCAAGGCACTTCGAGAGGAGAAATGGCGCTCTGAAAGAGAGCTGAGCCAGCTCAATG 1301
Db 5556 AAGTCAAGGCACTTCGAGAGGAGAAATGGCACCTCTTAAAGAGATGTCAATCGTGTCAATG 5497
QY 1302 ACCTTGTCTGCCAGCTTACCACCTTTGGGCACTTCCAGCTCTCACCGTATACCTCAGCAGCTC 1361
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QY 1362 TGAAGACCTGAACACACAGATGGAAGCTTCTGCAGTGGCCGTGAGGACCGAGTCAGGC 1421
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QY 1422 AGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTCAGCACCTTCTTTCCAGTCTG 1481
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QY 1602 ACCTGAATAATGTCAGATCTCAGCTTATAGGACTGCCATGAAGTCCGAGAGCTGCAGA 1661
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QY 1662 AGGCCCTTGTGATCTCTGAGCCTGTGAGCTGCATGTGATGCCTTGGACAGCACA 1721
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Db 5016 TTTATGATCGTCTGGAGCAAGAGCACACAAATCTGGTCAATGTCCCTCTCTGTGTGGATA 4957
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Db 4956 TGTGCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGTCC 4897
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QY 1902 TGTCTTTAAACTGGATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGAT 1961
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QY 1962 ACCTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCGAGCGCTGGCCTCC 2021
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QY 2022 TTCTGCATGATTTCTATCCAA 2041
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Db 4776 TTCTGCATGATTTCTATTCAA 4757
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RESULT 5
US-09-091-501B-7
; Sequence 7, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091.501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 6045
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(6037)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chimeric
; NAME/KEY: misc_feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-7
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Query Match 26.8%; Score 547.4; DB 4; Length 6045;
Best Local Similarity 61.4%; Pred. No. 1e-158;
Matches 900; Conservative 0; Mismatches 556; Indels 9; Gaps 1;
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Db 3270 ACAGGCAAGAAGATGCTAAAGCTTGGGAAATCTGAAGAGGCTACTATGCTTCAACATC 3329
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Db 3330 GACTGGATGATATGAACCAAGATGGAATGACTTAAAGCAAAATCTGCTPACCATCAGGG 3389
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QY 705 TTCTTTTACAAGACAGTCTTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACCTC 764
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Db 3390 CCAATTGGAGGCCGCTGAGAAGTGGAAAGGTTGCTGATGCTCTTAGAAGAACTGA 3449
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QY 765 TGGTGTGGCTACAGCTGAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGGACT 824
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Db 3450 TCAATGGCTGAATATGAAGATGAAGAGCTTAAGAAACAATGCCTATTGGAGGAGATG 3509
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QY 825 TTCCAGCAGTTCAAGACGAGAAACGATGTACATPAGGCGCTTCAAGAGGGGAATTTGAAACTA 884
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QY 885 AAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATTTCTGACAGAGCAGCCTT 944
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QY 945 T-----GGAAGGACTAGAGAAACTCTACCAGGAGCCCGAGAGCTGCTCTCTGAGG 995
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Db 3630 TTGAGGCCCTTGAAGAGCCCAAGAGAACCTTACATCAAAACAGAGTTTAACTCCTGAGG 3689
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QY 996 AGAGAGCCCCAGAAATCTACCTCGGTTCTACGAAAGCAGGCTGAGGAGGTCATATCTGAGT 1055
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Db 3690 AGAGAGCCCCAAAGATTTGCCAAAGCCATGGCAACAGCTCTTCTGAAGTCAAGAGAAAAT 3749
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Db 3750 GGGAAAGTCTAAATGCTGTACTAGCAATTTGGCAAAAGCAAGTGGACAAGGCATTGGAGA 3809
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QY 1116 GACTCCAGGAACCTCAAGAGGCCAGCGGATGAGTGGACCTCAAGCTGGCCCAAGCTGAGG 1175
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Db 3810 AACTCAGAGACCTGCAGGGAGCTATGGATGACCTGGACGCTGACATGAAGAGGCAGAGT 3869
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QY 1176 TGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGACTTCTTCCAAGATCAC 1235
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Db 3870 CCGTGGGAATGGCTGGGAAGCCCGTGGGAGACTTACTCATTGACTCGCTGAGGATCACA 3929
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QY 1236 TCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTTGGCCCTCTGAAAGAGAACGTGAGCCACG 1295
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Db 3930 TTGAAAAAATCATGCGCATTTAGAGAGAAATTCACCAATCAACTTTAAAGTTAAACCG 3989
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QY 1296 TCAATGACCTTGTCTGCCAGCTTACCACCTTTTGGGCATTTACGCTCTCACCCGTATAACCTCA 1355
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Db 3990 TGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGCATCCCTCTCTTAAAGATGTCTC 4049
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QY 1356 GCACCTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCGAGTGGCCGTCGAGGACCGAG 1415
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[illegible]

RESULT 6

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US-09-091-501B-9
; Sequence 9, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathan M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 10320
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(10312)

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QY 1476 CGTCTGTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGGCCCTACTATATCA 1535
Db 8445 CGTCAGTCCAGCTGCCGTGGCAAGATCCATTTTCATATAATAAAGTGGCCCTATACATCA 8504
QY 1536 ACCACGAGACTCAACAACACTTGTGGGACCATTCCAAAATGACAGAGCTCTACAGTCTT 1595
Db 8505 ACCATCAACACAGACACACCTGTTGGGACCATTCCAAAATGACCGAACTCTTTCAATCCC 8564
QY 1596 TAGCTGACCTGAATAATGTCAAGTTCTCAGCTTATAGAGCTGCCATGAAACTCCGAAGAC 1655
Db 8565 TTGCTGACCTGAATAATGTACGTTTCTGCTACCGTACAGCAATCAAAATCCGAAGAC 8624
QY 1656 TGCAGAGGCGCCCTTGTGCTGGATCTCTGAGCCCTGTCAGTGCATGTGATGCCCTGGACC 1715
Db 8625 TACAAAAGCACTATGTGTGGATCTCTTAGAGTTGAGTACACAATGAAATTTTCARAC 8684
QY 1716 AGCACACCTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAGATTATTAATGTTTGA 1775
Db 8685 AGCACAAAGTTGAACCAAAATGACCAAGCTCCTCAGTGTCCAGATGTCACTCACTGTCTGA 8744
QY 1776 CCACTATTATGACCCGCTGGAGCAGACACAAATTTGGTCAACGTCCCTCTCTGCG 1835
Db 8745 CAACAACCTTATGATGGACTTGGCAAAATGCATAGGACCTGGTCAACGTTCCACTCTGTG 8804
QY 1836 TGGATATGTCTGTAAGTGGCTGCTGAATGTTTATCATACGGGACGAAACAGGAGGATCC 1895
Db 8805 TTGATATGTCTCAATTTGCTCAATGTCTATGACACGGGTGGAACCTGGAATAATTA 8864
QY 1896 GTGTCCCTCTTTTAAACTGGCATCATTTCCCTGTAAGCAATTTGGAGACAAAGT 1955
Db 8865 GAGTGCAGAGTCTGAAGATGGATTAATGTCTCTCCTCAAGGCTCTTTGGAGAAAAAT 8924
QY 1956 ACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTACCAGCGCAGGCTGG 2015
Db 8925 ACAGATATCTCTTTAAGGAAGTTGCGGGGCCGACAGAAATGTGTACCAGAGGCGAGCTGG 8984
QY 2016 GCCTCCCTCTGCATGATCTATCCA 2040
Db 8985 GCCTGTACTTTCATGATGCCATCCA 9009

RESULT 7
US-09-091-501B-5
; Sequence 5, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Rattus sp.
US-09-091-501B-5

Query Match 3.9%; Score 79.4; DB 4; Length 200;
Best Local Similarity 64.3%; Pred. No. 1.1e-14;
Matches 119; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 505 CCTAAACCCCAAGTACACAACATAGGTGCTTCAAGAAGATCTAGACAACAAGT 564

Db 16 CCTGCAAAACCTGCTTGAAGAACAATAAAAGTTTGCAAAAGTGACCTCGAAGCTGAGCAGGT 75
QY 565 CAGGGTCAATTCTCTCACTCACATGGTGGTGGTAGTTGATGATCTAGTGGAGATCACGC 624
Db 76 GAAGGTGAATTCCTTAACATCATGTTGGTGGTGAATTTGGATGAAAACAGTGGGGAGAGCGC 135
QY 625 AACTGCTGCTTTGGAGAACAACCTAAAGTATTGGGAGATCGATGGGCAACATCTGTAG 684
Db 136 CACAGCTGTTTGGAGAATCAGTTACAGAAACTGGGTGAGCGCTGGACAGCTGTATGCCG 195
QY 685 ATGGA 689
Db 196 CTGGA 200

RESULT 8
US-09-091-501B-4
; Sequence 4, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Mus sp.
US-09-091-501B-4

Query Match 3.9%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 1.9e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;
QY 493 TGATCTGAAGACCTTAAAGCCAGTACACAACATAAGGTGCTTCAAGAAGATCTAGA 552
Db 4 TGACCTGCCCTCCCTGCAGAAGCTGCTTCAAGAACAATAAAAGTTTGCAAAATGACCTTGA 63
QY 553 ACAAGAACAAGTCAGGTCATATCTCTCACTCATCATGGTGGTAGTTGATGAATCTAG 612
Db 64 AGCTGAACAGGTGAAGTAAATTCCTTAACCTACATGGTGGTGAATGTTGGATGAAAACAG 123
QY 613 TGGAGATCACGCAACTGCTGCTTTTGAAGAACAACCTTAAGGTATTGGGAGATCGATGGGC 672
Db 124 TGGGGAGAGTGCCACAGCTCTTCTCTGAAGATCAGTTACAGAAACTGGGTGAGCGCTGGAC 183
QY 673 AAACATCTGTAGATGGA 689
Db 184 AGCTGTATGCCGCTGGA 200

RESULT 9
US-09-091-501B-6
; Sequence 6, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42

OTHER INFORMATION: n=a or c or g or t	NAME/KEY: misc_feature
LOCATION: (210001)..(225000)	
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LOCATION: (495001)..(510000)	
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LOCATION: (540001)..(555000)	
OTHER INFORMATION: n=a or c or g or t	NAME/KEY: misc_feature
LOCATION: (555001)..(570000)	
OTHER INFORMATION: n=a or c or g or t	

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; NAME/KEY: MSC_FEATURE
; LOCATION: 195001, 12

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; NAME/KEY: MSC_FEATURE
; LOCATION: 195001, 12

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Db 602 AGCAAGAATAAAAGATTGATCGATCAGACAAAGAAAATGGAGATACGATCGGAGGAA 661
QY 471 TGGAGGAAGAGCCCTCTTGGACCTGATCTTGAAGACCTAAACGCCCAAGTACAACAACATA 530
Db 662 TTGTAGAAGTCTCGTTGGAGGGCTTCCAGCTGGATTAGGAGCTACGTACAATGGGACA 721
QY 531 AGGTGCTTCAAGAGATCTAGACAAAGAACAAAGTCAGGTCATCTCTCCTCACTACATGG 590
Db 722 CGAAGCTAGATGCCAAATCGCAAGCTGTGTAGTATCAATGCCTTTAAAGGCGTAG 781
QY 591 TGGTGGTAGTTGATGAATCTAGTGG 615
Db 782 AATTGGGGTCGGATTCACCTTCTGG 806

RESULT 14
US-09-620-312D-69
; Sequence 69, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yungqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_FL-genes Version 1.0
; SEQ ID NO 69
; LENGTH: 1690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (128)..(1522)
US-09-620-312D-69

Query Match 2.1%; Score 42.8; DB 4; Length 1690;
Best Local Similarity 47.9%; Pred. No. 0.0098;
Matches 156; Conservative 0; Mismatches 167; Indels 3; Gaps 1;
QY 1120 CCAGGAAGTTCAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGAT 1179
Db 55 CAAGGAGTTGCACCAGGTGGCGCAGCACCTGGACGACGAGCTGGCATGGGTTTCAGGAGCG 114
QY 1180 CAAGGGA---TCCTGGCAGCCCGTGGCGGATCTCTCATTTGACTCTCTCCAAGATCACCT 1236
Db 115 GCTGCCACTGGCCATGCAGACAGCGAGGACGGTTTGGAGCGGTTCAGCAGCACAT 174
QY 1237 CGAGAAAGTCAAGGCACCTTCGAGGAGAAATTGCGCCCTCTGAAAGAGAACCTGAGCCACGT 1296
Db 175 CAAAAGAACACAGGGCCTGCGGCGGGAGATCCAGGGCGCATGGCGCCGCGCTGGAGGAGGT 234

QY 1297 CAATGACCTTCTCGCCAGCTTACCACCTTGGCATTCAGCTCTCACCCTATAACCTCAG 1356
Db 235 GCTGGAGCGCGCGCGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 294
QY 1357 CACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTSCAGGTGGCGTTCGAGGACCGAGT 1416
Db 295 GGGCCTGGAGCAGCTGCAGAGCGCCTGGGCGGACTGCGGGAGGCTGCCGAGCGGACGGCA 354
QY 1417 CAGGCAGCTGCATGAAGCCACAGGG 1442
Db 355 GCAGGTGCTGGACGCCGCTTCCAGG 380
RESULT 15
US-09-368-590-1
; Sequence 1, Application US/09368590
; Patent No. 6187563
; GENERAL INFORMATION:
; APPLICANT: Solimena, Michele
; TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR
; TITLE OF INVENTION: AUTOANTIGENS OF AUTOIMMUNE DISEASES
; FILE REFERENCE: 101918-200 (OCR-941)
; CURRENT APPLICATION NUMBER: US/09/368,590
; CURRENT FILING DATE: 1999-08-04
; EARLIER APPLICATION NUMBER: 60/095,657
; EARLIER FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 7812
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(6879)
; NAME/KEY: unsure
; LOCATION: (100)...(102)
; NAME/KEY: unsure
; LOCATION: (1021)...(1023)
; NAME/KEY: unsure
; LOCATION: (2266)...(2268)
US-09-368-590-1

Query Match 2.1%; Score 42.8; DB 3; Length 7812;
Best Local Similarity 47.9%; Pred. No. 0.027;
Matches 156; Conservative 0; Mismatches 167; Indels 3; Gaps 1;
QY 1120 CCAGGAAGTTCAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGAT 1179
Db 3639 CAAGGAGTTGCACCAGGTGGCGCAGCACCTGGACGACGAGCTGGCATGGGTTTCAGGAGCG 3698
QY 1180 CAAGGGA---TCCTGGCAGCCCGTGGCGGATCTCTCATTTGACTCTCTCCAAGATCACCT 1236
Db 3699 GCTGCCACTGGCCATGCAGACAGAGCGAGGCAACGGTTTGCAGGGCGGTCCAGCAGCACAT 3758
QY 1237 CGAGAAAGTCAAGGCACCTTCGAGGAGAGAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGT 1296
Db 3759 CAAAAGAAACACAGGCCCTGGCGGGAGATCCAGGCGCATGGCGCCCTGGAGGAGGT 3818
QY 1297 CAATGACCTTCTCGCCAGCTTACCACCTTGGCATTCAGCTCTCACCCTATAACCTCAG 1356
Db 3819 GCTGGAGCGCGCGGCGCTGGCGTTCGCTGCGCAGCCCGGAGGAGGAGGAGTGGGCGCG 3878
QY 1357 CACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAAGGTGGCGCTCGAGGACCGAGT 1416
Db 3879 GGGCCTGGAGCAGCTGCAGAGCGCCTGGGCGGACTGCGGGAGGCTGCCGAGCGGACGGCA 3938
QY 1417 CAGGCAGCTGCATGAAGCCACAGGG 1442
Db 3939 GCAGGTGCTGGACGCCGCTTCCAGG 3964

Search completed: September 24, 2003, 00:00:53
Job time : 115.113 secs

Db 1140 CCAGTTTCATACTCAIGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGTTGG 1199

QY 241 TAATATTCTACAAATTGGGAAGTAAGCTGATTGGACAGAGAAAATTATCAGACATGAAGA 300

Db 1200 TAATATTCTACAAATTGGGAAGTAAGCTGATTGGACAGAGAAAATTATCAGACATGAAGA 1259

QY 301 AACTGAGTACAAGAGCAGATGAATCTCCTAAATCAAGATGGAAATGCCTCAGGGTAGC 360

Db 1260 AACTGAGTACAAGAGCAGATGAATCTCCTAAATCAAGATGGAAATGCCTCAGGGTAGC 1319

QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCCTCAGAAATCAGAAAACT 420

Db 1320 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCCTCAGAAATCAGAAAACT 1379

QY 421 GAAAGAGTGAATGACTGGCTAACAAAAACAGAAAGAACAAAGAAAATGGAGGAAGA 480

Db 1380 GAAAGAGTGAATGACTGGCTAACAAAAACAGAAAGAACAAAGAAAATGGAGGAAGA 1439

QY 481 GCCTCTTGACCTGATCTGAAGACCTTAAAGCCCAAGTACAAACAACATAAGGTGCTTCA 540

Db 1440 GCCTCTTGACCTGATCTGAAGACCTTAAAGCCCAAGTACAAACAACATAAGGTGCTTCA 1499

QY 541 AGAAGATCTAGAACAAAGTCAAGTCAAGGTCAATTCTCTCACTCACATGGTGGTGGTAGT 600

Db 1500 AGAAGATCTAGAACAAAGTCAAGTCAAGGTCAATTCTCTCACTCACATGGTGGTGGTAGT 1559

QY 601 TGATGAATCTAGTGGAGATCACGGCAACTGCTGCTTTGGAAGAACRACTTAAGGTATTGGG 660

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QY 661 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACAG 720

Db 1620 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACAG 1679

QY 721 TTCTGACCACTGGAAGCTGTGCACCTTCTCTGAGGAACCTTCTGGTGTGGCTACAGCT 780

Db 1680 TTCTGACCACTGGAAGCTGTGCACCTTCTCTGAGGAACCTTCTGGTGTGGCTACAGCT 1739

QY 781 GAAAGATGATGAATTAAGCCGGCAGGACCTATTGAGGCGACCTTCCAGCAGTTCAGAA 840

Db 1740 GAAAGATGATGAATTAAGCCGGCAGGACCTATTGAGGCGACCTTCCAGCAGTTCAGAA 1799

QY 841 GCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTAAGAAACCTAAAGAACCTGTAATCAT 900

Db 1800 GCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTAAGAAACCTAAAGAACCTGTAATCAT 1859

QY 901 GAGTACTCTTGAGACTGTACGAATATTCTGACAGACAGCCCTTTGGAAGGACTAGAGAA 960

Db 1860 GAGTACTCTTGAGACTGTACGAATATTCTGACAGACAGCCCTTTGGAAGGACTAGAGAA 1919

QY 961 ACTCTACAGAGCCCGCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACCTGGCT 1020

Db 1920 ACTCTACAGAGCCCGCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACCTGGCT 1979

QY 1021 TCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGC 1080

Db 1980 TCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGC 2039

QY 1081 TGACTGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGGAACCTCAAGAGGCCAC 1140

Db 2040 TGACTGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGGAACCTCAAGAGGCCAC 2099

QY 1141 GGATGAGCTGGACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGT 1200

Db 2100 GGATGAGCTGGACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGT 2159

QY 1201 GGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTCGAGG 1260

Db 2160 GGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTCGAGG 2219

QY 1261 AGAAATTGCGCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCCTGCCAGCTTAC 1320

Db 2220 AGAAATTGCGCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCCTGCCAGCTTAC 2279

QY 1321 CACTTTGGGCATTGAGCTCTCCCGTATAAOCCTCAGCAGCTGTGGAAGACCTGAACACCAG 1380

Db 2280 CACTTTGGGCATTGAGCTCTCCCGTATAAOCCTCAGCAGCTGTGGAAGACCTGAACACCAG 2339

QY 1381 ATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAG 1440

Db 2340 ATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAG 2399

QY 1441 GGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTCTCTCCAGGGTCCCTGGGAGAG 1500

Db 2400 GGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTCTCTCCAGGGTCCCTGGGAGAG 2459

QY 1501 AGCCATCTCGCCAAACAAAGTGGCCCTACTATATCAACACGAGACTCAAAACAACCTTGGCTG 1560

Db 2460 AGCCATCTCGCCAAACAAAGTGGCCCTACTATATCAACACGAGACTCAAAACAACCTTGGCTG 2519

QY 1561 GGACCATCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATAATGTCAGATT 1620

Db 2520 GGACCATCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATAATGTCAGATT 2579

QY 1621 CTCAGCTTATAGGACTGCCATGAAACTCCGAAAGACTGCAAGAGCCCTTTGCTTGGATCT 1680

Db 2580 CTCAGCTTATAGGACTGCCATGAAACTCCGAAAGACTGCAAGAGCCCTTTGCTTGGATCT 2639

QY 1681 CTTGAGCCTGTGAGTGCATGTGATGCCCTTGAGCACGACACAACTCAAGCAAAATGACCA 1740

Db 2640 CTTGAGCCTGTGAGTGCATGTGATGCCCTTGAGCACGACACAACTCAAGCAAAATGACCA 2699

QY 1741 GCCCATGGATATCCTGCAGATTAATTAATTTGTTGACCACATTTATGACCGCCTGGAGCA 1800

Db 2700 GCCCATGGATATCCTGCAGATTAATTAATTTGTTGACCACATTTATGACCGCCTGGAGCA 2759

QY 1801 AGAGCACAAACAATTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAACTGGCTGCT 1860

Db 2760 AGAGCACAAACAATTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAACTGGCTGCT 2819

QY 1861 GAATGTTTATGATACGGGACGACAGGAGGATCCGTGTCTCTCTTTTAAACTGGCAT 1920

Db 2820 GAATGTTTATGATACGGGACGACAGGAGGATCCGTGTCTCTCTTTTAAACTGGCAT 2879

QY 1921 CATTTCCTCTGTAAAGCACATTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGC 1980

Db 2880 CATTTCCTCTGTAAAGCACATTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGC 2939

QY 1981 AAGTTCAACAGGATTTGTACACGCGCAGGCTGGGCTCCTCTGCTGATGATCTATCCA 2040

Db 2940 AAGTTCAACAGGATTTGTACACGCGCAGGCTGGGCTCCTCTGCTGATGATCTATCCA 2999

RESULT 2

US-09-845-416-31

; Sequence 31, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn ver. 2.1

; SEQ ID NO 31

; LENGTH: 4476

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-31

Query Match		100.0%;	Score 2041;	DB 12;	Length 4476;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 2041;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	TCCTTCACAGCAATTTGGAAGTCCTGAAGACAAGTCATTTGGCAGTTCATTGATGAGAG	60		
Db	1716	TCCTTCACAGCAATTTGGAAGTCCTGAAGACAAGTCATTTGGCAGTTCATTGATGAGAG	1775		
QY	61	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC	120		
Db	1776	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC	1835		
QY	121	TGCTGAGGACACATTTCAAGCACAAAGGAGAGATTTCTAATGATGTGGAGTGGTGAAGA	180		
Db	1836	TGCTGAGGACACATTTCAAGCACAAAGGAGAGATTTCTAATGATGTGGAGTGGTGAAGA	1895		
QY	181	CCAGTTTCATCTACATGAGGGGTACATGATGGATTGACAGCCCCATCAGGGCCCGGTTGG	240		
Db	1896	CCAGTTTCATCTACATGAGGGGTACATGATGGATTGACAGCCCCATCAGGGCCCGGTTGG	1955		
QY	241	TAAATATTCTAATTTGGGAAGTAAGCTGATGGAACAGGAAAATTATCAGAAGATGAAGA	300		
Db	1956	TAAATATTCTAATTTGGGAAGTAAGCTGATGGAACAGGAAAATTATCAGAAGATGAAGA	2015		
QY	301	AACGTAAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGATGGGAATGCCTCAGGTAGC	360		
Db	2016	AACGTAAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGATGGGAATGCCTCAGGTAGC	2075		
QY	361	TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT	420		
Db	2076	TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT	2135		
QY	421	GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAGAAAGAACAAAGGAAATGGAGGAAGA	480		
Db	2136	GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAGAAAGAACAAAGGAAATGGAGGAAGA	2195		
QY	481	GCCTCTTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACAAACATAAAGGTGCTTCA	540		
Db	2196	GCCTCTTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACAAACATAAAGGTGCTTCA	2255		
QY	541	AGAGATCTAGACAAGAACACACTCAGGTCAATCTCTCACTCACATGGTGGTGGTAGT	600		
Db	2256	AGAGATCTAGACAAGAACACACTCAGGTCAATCTCTCACTCACATGGTGGTGGTAGT	2315		
QY	601	TGATGAATCTAGTGGAGATCACCAACTGCTGCTTTGGAGAACAACCTTAAGGTATTGGG	660		
Db	2316	TGATGAATCTAGTGGAGATCACCAACTGCTGCTTTGGAGAACAACCTTAAGGTATTGGG	2375		
QY	661	AGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGCTGGGTTCTTTTACAAGACAG	720		
Db	2376	AGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGCTGGGTTCTTTTACAAGACAG	2435		
QY	721	TTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAAGAACTTCTGGTGGGCTACAGCT	780		
Db	2436	TTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAAGAACTTCTGGTGGGCTACAGCT	2495		
QY	781	GAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCAAGA	840		
Db	2496	GAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCAAGA	2555		
QY	841	GCAGACGATGTACATAGGGCCCTCAAGAGGGGAATTTGAAAACCTAAGAAACCTGTAATCAT	900		
Db	2556	GCAGACGATGTACATAGGGCCCTCAAGAGGGGAATTTGAAAACCTAAGAAACCTGTAATCAT	2615		
QY	901	GAGTACTCTTGAGACTGTACGAATATTCTTGACAGAGCAGCCTTTGGAAGGACTAGAGAA	960		
Db	2616	GAGTACTCTTGAGACTGTACGAATATTCTTGACAGAGCAGCCTTTGGAAGGACTAGAGAA	2675		
QY	961	ACTCTACAGGAGGCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTCACCTCGGCT	1020		
Db	2676	ACTCTACAGGAGGCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTCACCTCGGCT	2735		

QY	1021	TCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATGAACCTGCACCTCCGC	1080
Db	2736	TCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATGAACCTGCACCTCCGC	2795
QY	1081	TGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCAC	1140
Db	2796	TGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCAC	2855
QY	1141	GGATGAGCTGGACCTCAAGCTGGCCAAAGCTGAGGTGATCAAGGGATCCTGGAGCCCGT	1200
Db	2856	GGATGAGCTGGACCTCAAGCTGGCCAAAGCTGAGGTGATCAAGGGATCCTGGAGCCCGT	2915
QY	1201	GGCGATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGG	1260
Db	2916	GGCGATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGG	2975
QY	1261	AGAAATTCGCGCTCTGAAAGAGAAACGTGAGCCACGTCACCTCAATGACCTGCTCGCCAGCTTAC	1320
Db	2976	AGAAATTCGCGCTCTGAAAGAGAAACGTGAGCCACGTCACCTCAATGACCTGCTCGCCAGCTTAC	3035
QY	1321	CACCTTTGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACCAG	1380
Db	3036	CACCTTTGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACCAG	3095
QY	1381	ATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGTGCATGAAGCCACAG	1440
Db	3096	ATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGTGCATGAAGCCACAG	3155
QY	1441	GGACTTTGGTCCAGCATCTCAGCACCTTCTTCCAGCTCTGTCCAGGGTCCCTGGGAGAG	1500
Db	3156	GGACTTTGGTCCAGCATCTCAGCACCTTCTTCCAGCTCTGTCCAGGGTCCCTGGGAGAG	3215
QY	1501	AGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCACGAGACTCAAACAACCTTGCTG	1560
Db	3216	AGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCACGAGACTCAAACAACCTTGCTG	3275
QY	1561	GGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTCAGATT	1620
Db	3276	GGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTCAGATT	3335
QY	1621	CTCAGCTTATAGGACTGCCATGATGATGCTGAGCTGGAAGACTGCAAGAGGCGCTTTGCTGGATCT	1680
Db	3336	CTCAGCTTATAGGACTGCCATGATGATGCTGAGCTGGAAGACTGCAAGAGGCGCTTTGCTGGATCT	3395
QY	1681	CTTGAGCCTGTCAGCTGCATGTGATGCTTGACCCAGCAACACCTCAAGCAAAATGACCA	1740
Db	3396	CTTGAGCCTGTCAGCTGCATGTGATGCTTGACCCAGCAACACCTCAAGCAAAATGACCA	3455
QY	1741	GCCCATGGATATCCTGCGAGATTATTAAATGTTTGGACCACTATTTATGACCGCCCTGGAGCA	1800
Db	3456	GCCCATGGATATCCTGCGAGATTATTAAATGTTTGGACCACTATTTATGACCGCCCTGGAGCA	3515
QY	1801	AGAGCACACAATTTGGTCAACGTCCCTCTCTCGGTGGATATGTGTGAACCTGGCTGCT	1860
Db	3516	AGAGCACACAATTTGGTCAACGTCCCTCTCTCGGTGGATATGTGTGAACCTGGCTGCT	3575
QY	1861	GAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGCTCTGCTGCTTTAAACCTGGCAT	1920
Db	3576	GAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGCTCTGCTGCTTTAAACCTGGCAT	3635
QY	1921	CATTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGC	1980
Db	3636	CATTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGC	3695
QY	1981	AAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCTCCTTCTGTCATGATTCTATCCA	2040
Db	3696	AAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCTCCTTCTGTCATGATTCTATCCA	3755
QY	2041	A 2041	
Db	3756	A 3756	


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RESULT 3
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match      82.8%; Score 1690.8; DB 12; Length 3531;
Best Local Similarity 89.9%; Pred. No. 0;
Matches 1854; Conservative 0; Mismatches 187; Indels 21; Gaps 3;

QY      1 TCCTTCACAGCATTTTGAAGCTCCTGAAGACAAGTCATTTGGAGTTCATTCATGGAGAG 60
Db      960 TCCTTCACAGCATTTTGAAGCTCCTGAAGACAAGTCATTTGGAGTTCATTCATGGAGAG 1019

QY      61 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTAATATCGTGGCTCTTTC 120
Db     1020 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTAATATCGTGGCTCTTTC 1079

QY     121 TGCTGAGGACACATTTGCAAGCACAGGAGAGATTCTAATGATGTGGAAAGTGGTGAAGA 180
Db     1080 TGCTGAGGACACATTTGCAAGCACAGGAGAGATTCTAATGATGTGGAAAGTGGTGAAGA 1139

QY     181 CCAGTTTCATCTCATGAGGGGTACATGATGATGATGATGATGATGATGATGATGATGATG 240
Db     1140 CCAGTTTCATCTCATGAGGGGTACATGATGATGATGATGATGATGATGATGATGATGATG 1199

QY     241 TAATATCTACAATTTGGGAAGTAAGCTGATTGGACAGGAAATATATCAGAAGATGAAGA 300
Db     1200 TAATATCTACAATTTGGGAAGTAAGCTGATTGGACAGGAAATATATCAGAAGATGAAGA 1259

QY     301 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATCAAGATGGAATGCCTCAGGGTAGC 360
Db     1260 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATCAAGATGGAATGCCTCAGGGTAGC 1319

QY     361 TAGCATGGAAAAACAAGCAATTTTACATAGAGTT-----TTAATGGATCTCCAGAATCA 414
Db     1320 TAGCATGGAAAAACAAGCAATTTTACATAGAACTCATATAGATTACTGCAACAGTTCCCOCT 1379

QY     415 GAACTGAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAAACAAGAAAAATGGA 474
Db     1380 GGACCTGGAAAAGTTTCTTGCCCTGGCTTACAGAGCTGAAACAACTGCCAATGTCTCTACA 1439

QY     475 GGAAGAGCCTCTTGGACCTGATCTTTGAAGACCTTAAACGCCAACGACATACAAACATAAGGT 534
Db     1440 GGATGTCACCCGTAAGGAAAGGCTCCTAGAAGACTCCAAGGGAGTAAAGAGGCTGATGAA 1499

QY     535 GCTTCAAGAAGATCTAGAACAAGAAAGAAAGTCAAGGTCAATTCCTCACTCAATGCTGGT 594
Db     1500 ACAATGGCAAGACCCTCAAGGTGAATTTGAAGTCAAGCTCAGAGATGTTTATCACAACCTGGA 1559

QY     595 GGATGTTGATG-----ATCTAGTGGAGATCAGGCACACTGCTGCTTTGGAAGA 642
Db     1560 TGAAAACAGCCCAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGATGATGATGATGATGAT 1619

QY     643 ACAACTTAAGG---TATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAAGACCG 699
Db     1620 AAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAAGTTCGGAAAAAGTCTCTCAACAT 1679
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QY      700 CTGGGTTCTTTTACAAAGACAGTCTGTGACCAGTGGAAAGCGTGTGCACCTTTCTCTGCAGGA 759
Db     1680 TAGGTCCCATTTTGGAAAGCCAGTCTGTGACCAGTGGAAAGCGTGTGCACCTTTCTCTGCAGGA 1739

QY      760 ACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAGCGGCGAGGCACCTATTGGAGG 819
Db     1740 ACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAGCGGCGAGGCACCTATTGGAGG 1799

QY      820 CGACTTTCAGCAGTTCAGAAGCAGAAACGATGTACATAGAGGCTTCAAGAGGGAATTGAA 879
Db     1800 CGACTTTCAGCAGTTCAGAAGCAGAAACGATGTACATAGAGGCTTCAAGAGGGAATTGAA 1859

QY      880 AACTAAAGAACCTGTAAATCATGAGTACTCTTCAGACTGTACGAATATTTTGACAGAGCA 939
Db     1860 AACTAAAGAACCTGTAAATCATGAGTACTCTTCAGACTGTACGAATATTTTGACAGAGCA 1919

QY      940 GCCTTTGGAAGGACTAGAGAAACTCTACCAGAGCCCAAGAGCTGCCTCTCTGAGGAGAG 999
Db     1920 GCCTTTGGAAGGACTAGAGAAACTCTACCAGAGCCCAAGAGCTGCCTCTCTGAGGAGAG 1979

QY     1000 AGCCAGAAATGTCACTCGGCTTCTACGAAAGAGAGGCTGAGAGAGTCAATACTGAGTGGGA 1059
Db     1980 AGCCAGAAATGTCACTCGGCTTCTACGAAAGAGAGGCTGAGAGAGTCAATACTGAGTGGGA 2039

QY     1060 AAAAFTGAACCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 1119
Db     2040 AAAAFTGAACCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACT 2099

QY     1120 CCAGGAACCTTCAAGAGGCCACGAGTGAAGTGGAGCTCAAGCTGCGCCCAAGTGAAGTGAAT 1179
Db     2100 CCAGGAACCTTCAAGAGGCCACGAGTGAAGTGGAGCTCAAGCTGCGCCCAAGTGAAGTGAAT 2159

QY     1180 CAAGSGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGA 1239
Db     2160 CAAGSGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGA 2219

QY     1240 GAAACTCAAGGCACCTTCAGAGGAGAAATTCGCGCTCTGAAAAGAGAACGTGAGCCACGTCAA 1299
Db     2220 GAAACTCAAGGCACCTTCAGAGGAGAAATTCGCGCTCTGAAAAGAGAACGTGAGCCACGTCAA 2279

QY     1300 TGACCTTGCTGCCAGCTTACCACATTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCAC 1359
Db     2280 TGACCTTGCTGCCAGCTTACCACATTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCAC 2339

QY     1360 TCTGAAAGACCTGAACACACAGATGGAAGCTTCTGCAAGTGGCGCTCGAGACCGAGTCAG 1419
Db     2340 TCTGAAAGACCTGAACACACAGATGGAAGCTTCTGCAAGTGGCGCTCGAGACCGAGTCAG 2399

QY     1420 GCAGTGCATGAAGCCACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTC 1479
Db     2400 GCAGTGCATGAAGCCACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTC 2459

QY     1480 TGTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 1539
Db     2460 TGTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 2519

QY     1540 CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAAATGACAGAGCTCTACAGTCTTTAGC 1599
Db     2520 CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAAATGACAGAGCTCTACAGTCTTTAGC 2579

QY     1600 TGACTGAATAATGTCTCAGATTTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 1659
Db     2580 TGACTGAATAATGTCTCAGATTTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 2639

QY     1660 GAAGGCCCTTTGCTTGGATCTCTGAGCCTGFCAGCTGCTGATGATGATGATGATGATGATGATG 1719
Db     2640 GAAGGCCCTTTGCTTGGATCTCTGAGCCTGFCAGCTGCTGATGATGATGATGATGATGATGATG 2699

QY     1720 CAACCTCAAGCAAAATGACCAGCCCATGGATATCTCTGCAGATTATTAATGTTTGACCAC 1779
Db     2700 CAACCTCAAGCAAAATGACCAGCCCATGGATATCTCTGCAGATTATTAATGTTTGACCAC 2759
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QY 1480 TGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACCA 1539
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Db 3217 TGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACCA 3276
|||||
QY 1540 CGAGACTCAAAACAACTTGCTGGGACCATTCCCAAAATGACAGAGCTCTACAGTCTTTAGC 1599
|||||
Db 3277 CGAGACTCAAAACAACTTGCTGGGACCATTCCCAAAATGACAGAGCTCTACAGTCTTTAGC 3336
|||||
QY 1600 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 1659
|||||
Db 3337 TGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCA 3396
|||||
QY 1660 GAAGGCCCTTTGCTTGGATCTCTGAGCCCTGTCAGCTGCAATGATGCCCTGGACCCAGCA 1719
|||||
Db 3397 GAAGGCCCTTTGCTTGGATCTCTGAGCCCTGTCAGCTGCAATGATGCCCTGGACCCAGCA 3456
|||||
QY 1720 CAACCTCAAGCAAAATGACCCAGCCCATGGATATCCTGCAGATTATTAATTGTTGACCCAC 1779
|||||
Db 3457 CAACCTCAAGCAAAATGACCCAGCCCATGGATATCCTGCAGATTATTAATTGTTGACCCAC 3516
|||||
QY 1780 TATTTATGACCGCTGGAGCAAGAGCACAAACRAATTTGGTCAAGTCCCTCTCTGCGTGGA 1839
|||||
Db 3517 TATTTATGACCGCTGGAGCAAGAGCACAAACRAATTTGGTCAAGTCCCTCTCTGCGTGGA 3576
|||||
QY 1840 TATGCTCTGAACCTGGCTGCTGATGTTTATGATACGGGACGAACAGGGAGGATCCGTTG 1899
|||||
Db 3577 TATGCTCTGAACCTGGCTGCTGATGTTTATGATACGGGACGAACAGGGAGGATCCGTTG 3636
|||||
QY 1900 CCTGCTTTTAAACTGGCATCAATTCCTGTGTAAAGCAATTTGGAACAAAGTACAG 1959
|||||
Db 3637 CCTGCTTTTAAACTGGCATCAATTCCTGTGTAAAGCAATTTGGAACAAAGTACAG 3696
|||||
QY 1960 ATACCTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCGT 2019
|||||
Db 3697 ATACCTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCGT 3756
|||||
QY 2020 CCTCTGTCATGATCTATCCAA 2041
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Db 3757 CCTCTGTCATGATCTATCCAA 3778
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RESULT 5

US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 82.5%; Score 1683; DB 12; Length 3858;
Best Local Similarity 85.4%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 348; Gaps 1;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAACTCATTTGGCAGTTCAATGATGGAGAG 60
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Db 960 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAACTCATTTGGCAGTTCAATGATGGAGAG 1019
|||||
QY 61 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC 120
|||||
Db 1020 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAAGTATTATCGTGGCTTCTTTC 1079
|||||

QY 121 TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCCTAATGATGTGGAAGTGGTGAAGA 180
|||||
Db 1080 TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCCTAATGATGTGGAAGTGGTGAAGA 1139
|||||
QY 181 CCAGTTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGGTGG 240
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Db 1140 CCAGTTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGGTGG 1199
|||||
QY 241 TAATATTCTACAATTGGGAGTAAGCTGATTGGAACAGGAAATTTATCAGAAGATGAAGA 300
|||||
Db 1200 TAATATTCTACAATTGGGAGTAAGCTGATTGGAACAGGAAATTTATCAGAAGATGAAGA 1259
|||||
QY 301 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 360
|||||
Db 1260 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCCTCAGGGTAGC 1319
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QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT 420
|||||
Db 1320 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT 1379
|||||
QY 421 GAAAGAGTTGAATGACTGGCTPAACAAAAACAGAAAGAAACAAGGAAATGGAGGAAGA 480
|||||
Db 1380 GAAAGAGTTGAATGACTGGCTPAACAAAAACAGAAAGAAACAAGGAAATGGAGGAAGA 1439
|||||
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAACGTACAACAACATAAAGGTGCTCA 540
|||||
Db 1440 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAACGTACAACAACATAAAGGTGCTCA 1499
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QY 541 AGAAGATCTAGAACAAGAACAGTCAAGGTCAATTTCTCTCACTCACATGCTGGTGGTAGT 600
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Db 1500 AGAAGATCTAGAACAAGAACAGTCAAGGTCAATTTCTCTCACTCACATGCTGGTGGTAGT 1559
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QY 601 TGATGAATCTAGTGGAGATCAGCGAAGTCTGCTTTGGGAAGAACAACTTAAGGTATTGGG 660
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Db 1560 TGATGAATCTAGTGGAGATCAGCGAAGTCTGCTTTGGGAAGAACAACTTAAGGTATTGGG 1619
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QY 661 AGATCGATGGGCAAAACATCTGTAGATGGACAGAAAGACCCTGGGTCTTTTACAAGA --- 717
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Db 1620 AGATCGATGGGCAAAACATCTGTAGATGGACAGAAAGACCCTGGGTCTTTTACAAGACAC 1679
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QY 718 ----- 717
Db 1680 TCATAGATTACTGCAACAGTTCCCTCGGACCTGGAAAGATTTCTTGCTGGCTTACAGA 1739
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QY 718 ----- 717
Db 1740 AGCTGAAACAACACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGA 1799
|||||
QY 718 ----- 717
Db 1800 CTCCAAGGGAGTAAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGC 1859
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QY 718 ----- 717
Db 1860 TCACACAGATGTTTATCACAACTGGATGAAAACAGCCAAAAAATCCTGAGATCCCTGGA 1919
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QY 718 ----- 717
Db 1920 AGGTTCCGATGATGCAGTCCCTGTACAAAAGACGTTTGGATAACATGAATTTCAAGTGGAG 1979
|||||
QY 718 -----CAGTTCTGACCAGTG 732
|||||
Db 1980 TGAAGTTGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAGGCCAGCTTCTGACCAGTG 2039
|||||
QY 733 GAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAAGATGATGA 792
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Db 2040 GAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAAGATGATGA 2099
|||||
QY 793 ATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCCAGAGCAGAACGATGT 852
|||||
Db 2100 ATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCCAGAGCAGAACGATGT 2159
|||||

QY	853	ACATAGGGCCTTCAAGAGGAATTTGAAACTAAAGAACTGTAATCATGAGTACTCTTGA	912
Db	2160	ACATAGGGCCTTCAAGAGGAATTTGAAACTAAAGAACTGTAATCATGAGTACTCTTGA	2219
QY	913	GACTGTACGAATATTTCTGACAGAGCAGCCTTTTGGAAAGGACTAGAGAACTCTACCAGGA	972
Db	2220	GACTGTACGAATATTTCTGACAGAGCAGCCTTTTGGAAAGGACTAGAGAACTCTACCAGGA	2279
QY	973	GGCCAGAGAGCTGCCTCTGAGGAGAGAGCCCAAGAAATCTCACTCGGCTTCTACGAAGCA	1032
Db	2280	GGCCAGAGAGCTGCCTCTGAGGAGAGAGCCCAAGAAATCTCACTCGGCTTCTACGAAGCA	2339
QY	1033	GGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAG	1092
Db	2340	GGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAG	2399
QY	1093	AAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTTGA	1152
Db	2400	AAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTTGA	2459
QY	1153	CCTCAAGTCGCCCAAGCTGAGGTGATCAAGGGATCCTTGGCAGCCCGTGGCGGATCTCCT	1212
Db	2460	CCTCAAGTCGCCCAAGCTGAGGTGATCAAGGGATCCTTGGCAGCCCGTGGCGGATCTCCT	2519
QY	1213	CATTGACTCTCTCCAAGATCACCTCGAGAAAAAGTCAAGGCACTTCGAGGAGAAAAATTCGCC	1272
Db	2520	CATTGACTCTCTCCAAGATCACCTCGAGAAAAAGTCAAGGCACTTCGAGGAGAAAAATTCGCC	2579
QY	1273	TCTGAAAGAGAACGTCAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCTTTGGGCAT	1332
Db	2580	TCTGAAAGAGAACGTCAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCTTTGGGCAT	2639
QY	1333	TCAGCTCTCACCCGTATACCTTCAGCACTCTGGAAGACCTGAACACCAGATGGAAGCTTCT	1392
Db	2640	TCAGCTCTCACCCGTATACCTTCAGCACTCTGGAAGACCTGAACACCAGATGGAAGCTTCT	2699
QY	1393	GCAGGTGGCGCTCGAGGACCGAGTCAGGAGCTGCATGAAGCCCCACAGGCACTTTGGTCC	1452
Db	2700	GCAGGTGGCGCTCGAGGACCGAGTCAGGAGCTGCATGAAGCCCCACAGGCACTTTGGTCC	2759
QY	1453	AGCATCTCAGCACTTCTTTTCCACGTCTGTCCAGGGTCCTGGGAGAGAGCCCATCTCGGC	1512
Db	2760	AGCATCTCAGCACTTCTTTTCCACGTCTGTCCAGGGTCCTGGGAGAGAGCCCATCTCGGC	2819
QY	1513	AAACAAAGTCGCCCTACTATATCAACACGAGACTCAACAACTTGCTGGGACCATCCCAA	1572
Db	2820	AAACAAAGTCGCCCTACTATATCAACACGAGACTCAACAACTTGCTGGGACCATCCCAA	2879
QY	1573	AATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATAATGTCAGATTTCTCAGCTTATAG	1632
Db	2880	AATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATAATGTCAGATTTCTCAGCTTATAG	2939
QY	1633	GACTGCCATGAAACTCCGAAAGACTGCAGAGGCCCTTTTGGTTGGATCTCTTGAGCCCTGTC	1692
Db	2940	GACTGCCATGAAACTCCGAAAGACTGCAGAGGCCCTTTTGGTTGGATCTCTTGAGCCCTGTC	2999
QY	1693	AGCTGCATGTGATGCCCTTGGACCAGCACAACTCAAGCAAAATGACCAGCCCATGGATAT	1752
Db	3000	AGCTGCATGTGATGCCCTTGGACCAGCACAACTCAAGCAAAATGACCAGCCCATGGATAT	3059
QY	1753	CCTGCAGATTATTAATTGTTGACCACCTATTTATGACCGCTGGAGCAAGAGCACAACAA	1812
Db	3060	CCTGCAGATTATTAATTGTTGACCACCTATTTATGACCGCTGGAGCAAGAGCACAACAA	3119
QY	1813	TTTGGTCAACCTCCCTCTCTCGGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGA	1872
Db	3120	TTTGGTCAACCTCCCTCTCTCGGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGA	3179
QY	1873	TACGGGACGAACAGGGAGGATCCCGTGTCTTTTAAACTGGCATCATTTCCCTGTG	1932
Db	3180	TACGGGACGAACAGGGAGGATCCCGTGTCTTTTAAACTGGCATCATTTCCCTGTG	3239
QY	1933	TAAAGCACATTTTGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG	1992

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Db      3240 TAAAGCACATTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 3299
QY      1993 ATTTGTGACCAGCGCAGGCTGGGCTCCTTCTGCAATGATTCTATCCAA 2041
Db      3300 ATTTGTGACCAGCGCAGGCTGGGCTCCTTCTGCAATGATTCTATCCAA 3348

RESULT 6
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

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Query Match	82.5%;	Score 1683;	DB 12;	Length 4825;
Best Local Similarity	85.4%;	Pred. NO. 0;		
Matches 2041;	Conservative	0;	Mismatches	0;
			Indels	348;
			Gaps	1;
QY	1	TCCTTCACAGCATTTGGAACTCCTGAAGACAAGTCATTGGCAGTTCATTGATGGAGAG	60	
Db	1717	TCCTTCACAGCATTTGGAACTCCTGAAGACAAGTCATTGGCAGTTCATTGATGGAGAG	1776	
QY	61	TGAAGTAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATATTATCGTGGCTTCCTTC	120	
Db	1777	TGAAGTAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATATTATCGTGGCTTCCTTC	1836	
QY	121	TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCTATATGATGTGGAAGTGGTGAAGA	180	
Db	1837	TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCTATATGATGTGGAAGTGGTGAAGA	1896	
QY	181	CCAGTTTCATACTCATGAGGGGTACATGATGGATTGTGACAGCCCCATCAGSGCCGGTTGG	240	
Db	1897	CCAGTTTCATACTCATGAGGGGTACATGATGGATTGTGACAGCCCCATCAGSGCCGGTTGG	1956	
QY	241	TAATATTCTACAATTGGGAAGTAAGCTGATGGAAACAGGAAAAATTATCAGAAGATGAAGA	300	
Db	1957	TAATATTCTACAATTGGGAAGTAAGCTGATGGAAACAGGAAAAATTATCAGAAGATGAAGA	2016	
QY	301	AACTGAAGTACAAGACAGCATGAATCTCCATAATTCAAGATGGGAATGCCTCAGGGTAGC	360	
Db	2017	AACTGAAGTACAAGACAGCATGAATCTCCATAATTCAAGATGGGAATGCCTCAGGGTAGC	2076	
QY	361	TAGCATGGAATAAACAAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT	420	
Db	2077	TAGCATGGAATAAACAAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT	2136	
QY	421	GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACAAAGGAAAAATGGAGGAAGA	480	
Db	2137	GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACAAAGGAAAAATGGAGGAAGA	2196	
QY	481	GCCTCTTGGACCTGATCTTCAAGACCTTAAACGCCCAAGTACAAACATAAGGTGCTTCA	540	
Db	2197	GCCTCTTGGACCTGATCTTCAAGACCTTAAACGCCCAAGTACAAACATAAGGTGCTTCA	2256	
QY	541	AGAAGATCTAGAACAAAGAACAGTCAGGGTCAATTCTCTCACTCACATGGTGGTGTACT	600	
Db	2257	AGAAGATCTAGAACAAAGAACAGTCAGGGTCAATTCTCTCACTCACATGGTGGTGTACT	2316	

QY 601 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAGAAACAACTTAAGGTATGGG 660
Db 2317 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAGAAACAACTTAAGGTATGGG 2376
QY 661 AGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAAGA --- 717
Db 2377 AGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAAGACAC 2436
QY 718 ----- 717
Db 2437 TCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAGTTTCTTGCTGGCTTACAGA 2496
QY 718 ----- 717
Db 2497 AGCTGAAAACAACCTGCCAATGTCTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAGA 2556
QY 718 ----- 717
Db 2557 CTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTGAAGC 2616
QY 718 ----- 717
Db 2617 TCACACAGATGTTTATCACAACTGGATGAAAACAGCCAAAATACTCCTGAGATCCCTGGA 2676
QY 718 ----- 717
Db 2677 AGGTCCGATGATGCAGTCTCTGTATCAAAAGACGTTTGGATAACATGAACCTCAAGTGGAG 2736
QY 718 ----- -CAGTCTGACCAAGTG 732
Db 2737 TGAACCTCGGAAAAGTCTCTCAACATTAGGTCCCATTTTGAAGCCAGTCTTGACCAAGTG 2796
QY 733 GAAGCGTCTGCACCTTTCTCTGAGAGAACTTCTGGTGCTGAGCTACAGCTGAAAGATGATGA 792
Db 2797 GAAGCGTCTGCACCTTTCTCTGAGAGAACTTCTGGTGCTGAGCTGAAAGATGATGA 2856
QY 793 ATTAAGCCGGCAGGACCACTATTGGAGGCGACTTTCAGCACTTCAGAACGAAACGATGT 852
Db 2857 ATTAAGCCGGCAGGACCACTATTGGAGGCGACTTTCAGCACTTCAGAACGAAACGATGT 2916
QY 853 ACATAGGGCCCTTCAAGAGGGAAATGAAAACFAAAGAACCTGTAATCATGAGTACTCTTGA 912
Db 2917 ACATAGGGCCCTTCAAGAGGGAAATGAAAACFAAAGAACCTGTAATCATGAGTACTCTTGA 2976
QY 913 GACTGTACGAATATTTCTGACAGAGCAGCCCTTGGAGGAGGACTAGAGAAACTCTACCAGGA 972
Db 2977 GACTGTACGAATATTTCTGACAGAGCAGCCCTTGGAGGAGGACTAGAGAAACTCTACCAGGA 3036
QY 973 GCCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCA 1032
Db 3037 GCCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCA 3096
QY 1033 GGCTGAGGAGGTCAATACTGAGTGGGAAAATGAAACCTGCACTCCGCTGACTGGCAGAG 1092
Db 3097 GGCTGAGGAGGTCAATACTGAGTGGGAAAATGAAACCTGCACTCCGCTGACTGGCAGAG 3156
QY 1093 AAAAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCACCGATGAGCTGGA 1152
Db 3157 AAAAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCACCGATGAGCTGGA 3216
QY 1153 CCTCAGCTGCGCCAGCTGAGTGTATCAAGGATCCTGGCAGCCCGTGCGCGATCTCCT 1212
Db 3217 CCTCAGCTGCGCCAGCTGAGTGTATCAAGGATCCTGGCAGCCCGTGCGCGATCTCCT 3276
QY 1213 CATTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTTGGCC 1272
Db 3277 CATTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTTGGCC 3336
QY 1273 TCTGAAAGAGAACGTCAGCCACGTCACATGACCTTGCTCGCCAGCTTACCATTTTGGGCAT 1332
Db 3337 TCTGAAAGAGAACGTCAGCCACGTCACATGACCTTGCTCGCCAGCTTACCATTTTGGGCAT 3396
QY 1333 TCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACAGATGGAAGCTTCT 1392

Db 3397 TCAGCTCTCACCGTATAACCTCAGCACTCTGGAACCTGAACACAGATGGAAGCTTCT 3456
QY 1393 GCAGGTGCCGTGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGTCC 1452
Db 3457 GCAGGTGCCGTGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGTCC 3516
QY 1453 AGCATCTCAGCACTTTCTTCCACGCTGTCCAGGTCCTTGGGAGAGAGCCATCTCGCC 1512
Db 3517 AGCATCTCAGCACTTTCTTCCACGCTGTCCAGGTCCTTGGGAGAGAGCCATCTCGCC 3576
QY 1513 AAACAAAGTCCCTACTATATCAACACAGGAGACTCAACAACTTCTCTGGGACCATCCCA 1572
Db 3577 AAACAAAGTCCCTACTATATCAACACAGGAGACTCAACAACTTCTCTGGGACCATCCCA 3636
QY 1573 AATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTGACATTTCTCAGCTTATAG 1632
Db 3637 AATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTGACATTTCTCAGCTTATAG 3696
QY 1633 GACTGCCATGAAACTCCGAAGACTGCAGAAAGCCCTTTGCTTGGATCTCTTGGCCCTGTC 1692
Db 3697 GACTGCCATGAAACTCCGAAGACTGCAGAAAGCCCTTTGCTTGGATCTCTTGGCCCTGTC 3756
QY 1693 AGCTGCATGTGATGCCCTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGGATAT 1752
Db 3757 AGCTGCATGTGATGCCCTGGACCAAGCAACCTCAAGCAAAATGACCAAGCCCATGGATAT 3816
QY 1753 CCTGCAGATTATTAATTTGACCACTATTATGACCGCCTGGAGCAAGAGACAAACA 1812
Db 3817 CCTGCAGATTATTAATTTGACCACTATTATGACCGCCTGGAGCAAGAGCAACAACA 3876
QY 1813 TTTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGA 1872
Db 3877 TTTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGA 3936
QY 1873 TACGGGACGAACAGGGAGGATCCGTGCTCTCTTTTAAACTGGCATCATTTCCCTGTG 1932
Db 3937 TACGGGACGAACAGGGAGGATCCGTGCTCTCTTTTAAACTGGCATCATTTCCCTGTG 3996
QY 1933 TAAAGCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 1992
Db 3997 TAAAGCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 4056
QY 1993 ATTTGTGACCAAGCGAGCTGGCCCTCTCTGATGATTTCTATCCAA 2041
Db 4057 ATTTGTGACCAAGCGAGCTGGCCCTCTCTGATGATTTCTATCCAA 4105

RESULT 7

US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 82.5%; Score 1683; DB 12; Length 4848;
Best Local Similarity 85.4%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 348; Gaps 1;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAGACAAAGTCATTTGGCAGTTCATTGATGGAGAG 60
Db 1740 TCCTTCACAGCATTTGGAAGCTCCTGAAAGACAAGTCATTTGGCAGTTCATTGATGGAGAG 1799
QY 61 TGAAGTAAACCTGGACCGTTATCAACAGCTTTTGAAGAAGTATATCGTGGCTTCTTC 120
Db 1800 TGAAGTAAACCTGGACCGTTATCAACAGCTTTTGAAGAAGTATATCGTGGCTTCTTC 1859
QY 121 TGCTGAGSACACATTTGCAAGCACAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA 180
Db 1860 TGCTGAGSACACATTTGCAAGCACAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA 1919
QY 181 CCAGTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGTTGG 240
Db 1920 CCAGTTTCATACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCGGTTGG 1979
QY 241 TAATATTCTACAAATTGGGAAGTAAGCTGATTGGAACAGAGAAAATTATCAGAGATGAAGA 300
Db 1980 TAATATTCTACAAATTGGGAAGTAAGCTGATTGGAACAGAGAAAATTATCAGAGATGAAGA 2039
QY 301 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATCAAGATGGGAATGCCCTCAGGGTAGC 360
Db 2040 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATCAAGATGGGAATGCCCTCAGGGTAGC 2099
QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAAT 420
Db 2100 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAAT 2159
QY 421 GAAAGATTGAATGACTGGCTAACAAAAACAGAGAAAAGAACAGGAAAATGGAGGAAGA 480
Db 2160 GAAAGATTGAATGACTGGCTAACAAAAACAGAGAAAAGAACAGGAAAATGGAGGAAGA 2219
QY 481 GCCTCTGGACCTGATCTTGAAGACCTAAAACGCAAGTACAAACATAAAGTGTGTTCA 540
Db 2220 GCCTCTGGACCTGATCTTGAAGACCTAAAACGCAAGTACAAACATAAAGTGTGTTCA 2279
QY 541 AGAAGATCTAGAACAAAGCAAGTCAAGGGTCAATCTCTCACTCACATGGTGGTAGT 600
Db 2280 AGAAGATCTAGAACAAAGCAAGTCAAGGGTCAATCTCTCACTCACATGGTGGTAGT 2339
QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGTATTGGG 660
Db 2340 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGTATTGGG 2399
QY 661 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGTGGTCTCTTTTACAAGA --- 717
Db 2400 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGTGGTCTCTTTTACAAGACAC 2459
QY 718 --- 717
Db 2460 TCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAAGTTTCTTGCTGGCTTACAGA 2519
QY 718 --- 717
Db 2520 AGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGTAAAGGAAAGGCTCTAGAAGA 2579
QY 718 --- 717
Db 2580 CTCCAGGGAGTAAAAGAGCTGATGAACAACTATGCAAGACCTCCAAAGGTGAATGAAGC 2639
QY 718 --- 717
Db 2640 TCACACAGATGTTTATCACAACTGTGATGAAACAGCCCAAAAATCCTGAGATCCCTGGA 2699
QY 718 --- 717
Db 2700 AGGTTCCGATGATGCAGTCTGTTACAAAAGACGTTTGGATAACATGAACITCAAGTGGAG 2759
QY 718 --- CAGTCTCGACCAGTG 732
Db 2760 TGAAC TTCGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTG 2819
QY 733 GAAGCGTCTGCACCTTCTCTGCAGGAACCTCTCTGGTGTGGCTACAGCTGAAAGATGATGA 792

Db 2820 GAAGCGTCTGCACCTTTCTCTCGAGGAACITCTGGTGTGGCTACAGCTGAAAGATGATGA 2879
QY 793 ATTAAAGCCGGCAGGCACCTATTGGAGGGGACTTTCCAGCAGTTCAGAACGAGAACGATGT 852
Db 2880 ATTAAAGCCGGCAGGCACCTATTGGAGGGGACTTTCCAGCAGTTCAGAACGAGAACGATGT 2939
QY 853 ACATAGGGCCCTCAAGAGGGGAATTGAAAACATAAGAACTGTAATCATGAGTACTCTTGA 912
Db 2940 ACATAGGGCCCTCAAGAGGGGAATTGAAAACATAAGAACTGTAATCATGAGTACTCTTGA 2999
QY 913 GACTGTACGAATATTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTCTACCAGGA 972
Db 3000 GACTGTACGAATATTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTCTACCAGGA 3059
QY 973 GCCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAAATTTGAAGGACTAGAGAACTCTACCAGGA 1032
Db 3060 GCCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAAATTTGAAGGACTAGAGAACTCTACCAGGA 3119
QY 1033 GGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAG 1092
Db 3120 GGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAG 3179
QY 1093 AAAAATAGATGACACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGAGATGACCTGGA 1152
Db 3180 AAAAATAGATGACACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGAGATGACCTGGA 3239
QY 1153 CCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGCGGATCTCCT 1212
Db 3240 CCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGCGGATCTCCT 3299
QY 1213 CATTGACTCTTCCAAAGATCACTCGAGAAAGTCAAGGCACCTTACCACTTTTGGGCAT 1272
Db 3300 CATTGACTCTTCCAAAGATCACTCGAGAAAGTCAAGGCACCTTACCACTTTTGGGCAT 3359
QY 1273 TCTGAAAAGAGAACTGAGCCAGCTCAATGACCTTGCTGCGCAGCTTACCACTTTTGGGCAT 1332
Db 3360 TCTGAAAAGAGAACTGAGCCAGCTCAATGACCTTGCTGCGCAGCTTACCACTTTTGGGCAT 3419
QY 1333 TCAGCTCTCACCGTATAACCTCAGCACCTCTGAAAGACCTGAACACCAAGATGGAAGCTTCT 1392
Db 3420 TCAGCTCTCACCGTATAACCTCAGCACCTCTGAAAGACCTGAACACCAAGATGGAAGCTTCT 3479
QY 1393 GCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCCAACAGGACCTTTGGTCC 1452
Db 3480 GCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCCAACAGGACCTTTGGTCC 3539
QY 1453 AGCATCTCAGCAGCTTTCTTTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTCGCC 1512
Db 3540 AGCATCTCAGCAGCTTTCTTTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTCGCC 3599
QY 1513 AAACAAAGTGCCTACTATATCAACCCAGAGACTCAACAACTTGTCTGGGAGAGCCATCCCAA 1572
Db 3600 AAACAAAGTGCCTACTATATCAACCCAGAGACTCAACAACTTGTCTGGGAGAGCCATCCCAA 3659
QY 1573 AATGACAGAGCTCTACAGTCTTAGTACCTGAATATATGTAGATCTCAGCTTATAG 1632
Db 3660 AATGACAGAGCTCTACAGTCTTAGTACCTGAATATATGTAGATCTCAGCTTATAG 3719
QY 1633 GACTGCCATGAAACTCCGAAAGACTGCAGAGGCCCTTTGCTTGGATCTCTTGGAGCCGTGTC 1692
Db 3720 GACTGCCATGAAACTCCGAAAGACTGCAGAGGCCCTTTGCTTGGATCTCTTGGAGCCGTGTC 3779
QY 1693 AGCTGCATGTGATGCCCTTGAGCCAGCACAACTCAAGCAAAATGACCAAGCCCATGGATAT 1752
Db 3780 AGCTGCATGTGATGCCCTTGAGCCAGCACAACTCAAGCAAAATGACCAAGCCCATGGATAT 3839
QY 1753 CCTGCAGATTATTAATTGTTGACCACCTATTATGACCGCCTGGAGCAAGAGACACAA 1812
Db 3840 CCTGCAGATTATTAATTGTTGACCACCTATTATGACCGCCTGGAGCAAGAGACACAA 3899
QY 1813 TTTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGA 1872

Db 3512 CATTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAAAATTGCGCC 3571
QY 1273 TCTGAAAGAGAACGCTGAGCCACGCTCAATGACCTTGCTGCGCCAGCTTACCACATTTGGGCAT 1332
Db 3572 TCTGAAAGAGAACGCTGAGCCACGCTCAATGACCTTGCTGCGCCAGCTTACCACATTTGGGCAT 3631
QY 1333 TCAGCTCTCACCGTATAAACCCTCAGCAGCTCTGGAAGACCTGAACACACAGATGGAAGCTTCT 1392
Db 3632 TCAGCTCTCACCGTATAAACCCTCAGCAGCTCTGGAAGACCTGAACACACAGATGGAAGCTTCT 3691
QY 1393 GCAGGTGGCCGTCGAGGACCGAGTCAAGCAGCTGCTGGAAGCCCAAGCCACAGGACTTTGGTCC 1452
Db 3692 GCAGGTGGCCGTCGAGGACCGAGTCAAGCAGCTGCTGGAAGCCCAAGCCACAGGACTTTGGTCC 3751
QY 1453 AGCATCTCAGCACTTTCTTTCCACGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 1512
Db 3752 AGCATCTCAGCACTTTCTTTCCACGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCC 3811
QY 1513 AAACAAAGTCCCTACTATATCAACCACGAGACTCAAAACAACCTTGTGTGGAGACCATCCCAA 1572
Db 3812 AAACAAAGTCCCTACTATATCAACCACGAGACTCAAAACAACCTTGTGTGGAGACCATCCCAA 3871
QY 1573 AATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAGATTTCTCAGCTTATAG 1632
Db 3872 AATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAATGTCAGATTTCTCAGCTTATAG 3931
QY 1633 GACTGCCATGAAACTCCGAAGACTGCGAAGGCCCTTTGCTTGGATCTTTGAGCCTGTC 1692
Db 3932 GACTGCCATGAAACTCCGAAGACTGCGAAGGCCCTTTGCTTGGATCTTTGAGCCTGTC 3991
QY 1693 AGCTGCATGTGATGCCCTTGACCAAGACTCAAAACCTCAAGCAAAATGACGACCCCATGGATAT 1752
Db 3992 AGCTGCATGTGATGCCCTTGACCAAGACTCAAAACCTCAAGCAAAATGACGACCCCATGGATAT 4051
QY 1753 CCTGCAGATTAATAATTGTTGACCACTATTATGACCGCCTGGAGCAAGGACACAACAA 1812
Db 4052 CCTGCAGATTAATAATTGTTGACCACTATTATGACCGCCTGGAGCAAGGACACAACAA 4111
QY 1813 TTTGGTCAAGCTCCCTCTCTGCGTGGATATGTCTGAACCTGCTGCTGCTGAATGTTATGA 1872
Db 4112 TTTGGTCAAGCTCCCTCTCTGCGTGGATATGTCTGAACCTGCTGCTGCTGAATGTTATGA 4171
QY 1873 TACGGGACGACAGGAGGATCCGTGTCCTGCTCTTTTAAACTGGCATCATTTCCCTGTG 1932
Db 4172 TACGGGACGACAGGAGGATCCGTGTCCTGCTCTTTTAAACTGGCATCATTTCCCTGTG 4231
QY 1933 TAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 1992
Db 4232 TAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 4291
QY 1993 ATTTGTGACGACGCGAGCTGGCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2041
Db 4292 ATTTGTGACGACGCGAGCTGGCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 4340

RESULT 9
US-09-845-416-32
; Sequence 32, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 32
; LENGTH: 4414
; TYPE: DNA

; ORGANISM: Homo sapiens
US-09-845-416-32
Query Match 77.5%; Score 1581; DB 12; Length 4414;
Best Local Similarity 87.6%; Pred. No. 0;
Matches 1788; Conservative 0; Mismatches 190; Indels 63; Gaps 3;
QY 1 TCCTTCACAGCATTTGGAAGCTCTGGAAGACAAAGTCAATTTGGCAGTTTCATTGATGGAGAG 60
Db 1717 TCCTTCACAGCATTTGGAAGCTCTGGAAGACAAAGTCAATTTGGCAGTTTCATTGATGGAGAG 1776
QY 61 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTGAAGAAAGTATATCGTGGCTTCTTTC 120
Db 1777 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTGAAGAAAGTATATCGTGGCTTCTTTC 1836
QY 121 TGCTGAGGACACATTCGAAGCACACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
Db 1837 TGCTGAGGACACATTCGAAGCACACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1896
QY 181 CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 240
Db 1897 CCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGTTGG 1956
QY 241 TAATATTTACAAATTGGGAAGTAAAGTGAATTGGGAACAGGAAATATTCAGAAAGATGAAGA 300
Db 1957 TAATATTTACAAATTGGGAAGTAAAGTGAATTGGGAACAGGAAATATTCAGAAAGATGAAGA 2016
QY 301 AACTGAAGTACAAAGACAGATGAATCTCTTAATTTCAAGATGGGAATGCCTCAGGGTAGC 360
Db 2017 AACTGAAGTACAAAGACAGATGAATCTCTTAATTTCAAGATGGGAATGCCTCAGGGTAGC 2076
QY 361 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAAT 420
Db 2077 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAAT 2136
QY 421 GAAAGAGTTGAATGAGTGGCTAACAACAAAAACAGAGAAAAAGAAAGGAAATGGAGGAAGA 480
Db 2137 GAAAGAGTTGAATGAGTGGCTAACAACAAAAACAGAGAAAAAGAAAGGAAATGGAGGAAGA 2196
QY 481 GCCTCTTGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATTAAGTGTCTTCA 540
Db 2197 GCCTCTTGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATTAAGTGTCTTCA 2256
QY 541 AGAAGATCTAGAACACAGAACCAAGTCAGGGTCAATCTCTCACTCACATGGTGGTGTAGT 600
Db 2257 AGAAGATCTAGAACACAGAACCAAGTCAGGGTCAATCTCTCACTCACATGGTGGTGTAGT 2316
QY 601 TGATGATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 660
Db 2317 TGATGATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 2376
QY 661 AGATCGATGGGCAACACATCTGTAGATGGACAGAGACCGCTGGTTCCTTTTACAAGACAG 720
Db 2377 AGATCGATGGGCAACACATCTGTAGATGGACAGAGACCGCTGGTTCCTTTTACAAGACAT 2436
QY 721 TTCTGACCAAGTGAAGCGCTCTGCACTTTCTCTGACAGGAACCTTCTGGTGTGGCTACAGCT 780
Db 2437 CCTTCTCAAATGGCAACGCTCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTTCAGA 2496
QY 781 GAAAGATGATGAATTAAGCCGCGCAGGACCTTATTTGAGGGCGGACTTTCCAGCAGTTTCAGAA 840
Db 2497 AAAAGAGATGCAGTGAACAAAGATTCACACACTGGCTTTTAAAGATCAAAATGAATGTT 2556
QY 841 GCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTAAGAACTAAAGAACTGTATCAT 900
Db 2557 ATCACTCTTCAAAAACCTGGCCGCTTTTAAACCGGATCTAGAAAAGAAAAGCAATCCAT 2616
QY 901 GAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGAAGAGACTAGAGAA 960
Db 2617 GGGCAAACTGTA-----TTCACTCAAAACAAGATCTTCTTTCAACACTGAAG 2662
QY 961 ACTCTACCAGGAGCCAGAGAGCTGCCTCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCT 1020

Db 2663 AATAAGTCAGTGACCCAGAAAGACGGAAGCATGGCTGGA----- 2700

QY 1021 TCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAATTTGAACCTGCACCTCCGC 1080

Db 2701 -----TAACCTTTGCCCGGTGTTGGGATAATTAGTCCAAAACACTTGAA----- 2743

QY 1081 TGACTGSCAGAGAAAATAGATGAGAGACCCCTTGAAGAGACTCCAGGAACCTCAAGAGGCCAC 1140

Db 2744 -----AAGAGTACAGCACAGACCCCTTGAAGAGACTCCAGGAACCTCAAGAGGCCAC 2793

QY 1141 GGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCCTGGCAGCCCGT 1200

Db 2794 GGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCCTGGCAGCCCGT 2853

QY 1201 GGGCGATCTCCTCAATTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGG 1260

Db 2854 GGGCGATCTCCTCAATTGACTCTCTCCAAAGATCACTCGAGAAAGTCAAGGCACTTCGAGG 2913

QY 1261 AGAAATGCGCCTCTGAAAAGAGAAAGCTGAGCGACGTCGAATGACCTTGCTCGCCAGCTTAC 1320

Db 2914 AGAAATGCGCCTCTGAAAAGAGAAAGCTGAGCGACGTCGAATGACCTTGCTCGCCAGCTTAC 2973

QY 1321 CACTTTGGGCATTACGCTCTCACCGTATACCTTCAGCACTCTGGAAGACCTGAACACCCAG 1380

Db 2974 CACTTTGGGCATTACGCTCTCACCGTATACCTTCAGCACTCTGGAAGACCTGAACACCCAG 3033

QY 1381 ATGGAAGCTTCTGCGAGGTGGCCGTCGAGGACCGAGTCAGGCACTGCATGAAGCCCCACAG 1440

Db 3034 ATGGAAGCTTCTGCGAGGTGGCCGTCGAGGACCGAGTCAGGCACTGCATGAAGCCCCACAG 3093

QY 1441 GGACITTTGGTCCAGCATCTCAGCACTTCTTTCCACGCTCTGTCCAGGGTCCCTGGGAGAG 1500

Db 3094 GGACITTTGGTCCAGCATCTCAGCACTTCTTTCCACGCTCTGTCCAGGGTCCCTGGGAGAG 3153

QY 1501 AGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCACGAGACTCAAAACACTTGCTG 1560

Db 3154 AGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCACGAGACTCAAAACACTTGCTG 3213

QY 1561 GGACCATCCCAAATFGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTCAGATT 1620

Db 3214 GGACCATCCCAAATFGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAATGTCAGATT 3273

QY 1621 CTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGCAGAAGGCCCTTTGCTTGGATCT 1680

Db 3274 CTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTGCAGAAGGCCCTTTGCTTGGATCT 3333

QY 1681 CTTGAGCCTGTGAGCTGTCATGTGATGCCCTTGGACCAGCACACCTCAAGCRAAAATGACCA 1740

Db 3334 CTTGAGCCTGTGAGCTGTCATGTGATGCCCTTGGACCAGCACACCTCAAGCRAAAATGACCA 3393

QY 1741 GCCCATGATATCCTGTCAGATTATTAATTGTTTGACCCACTATTATGACCCGCTGGAGCA 1800

Db 3394 GCCCATGATATCCTGTCAGATTATTAATTGTTTGACCCACTATTATGACCCGCTGGAGCA 3453

QY 1801 AGAGCAACAACAAATTTGGTCAACGTCCTCTCTGCGTGGATATGTGCTGAACTGGCTGCT 1860

Db 3454 AGAGCAACAACAAATTTGGTCAACGTCCTCTCTGCGTGGATATGTGCTGAACTGGCTGCT 3513

QY 1861 GAATGTTTATGATACGGGACGAACAGGGAGGATCCGCTGCTCCTGCTTTTAAACTGGCAT 1920

Db 3514 GAATGTTTATGATACGGGACGAACAGGGAGGATCCGCTGCTCCTGCTTTTAAACTGGCAT 3573

QY 1921 CATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACTTTTCAAGCAAGTGGC 1980

Db 3574 CATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACTTTTCAAGCAAGTGGC 3633

QY 1981 AAGTTCACAGGATTTTGTGACCCAGCGAGGCTGGGCCCTCCTCTGTCATGATTCTATCCA 2040

Db 3634 AAGTTCACAGGATTTTGTGACCCAGCGAGGCTGGGCCCTCCTCTGTCATGATTCTATCCA 3693

QY 2041 A 2041

Db 3694 A 3694

RESULT 10

US-09-845-416-14

; Sequence 14, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 14

; LENGTH: 3446

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-14

Query Match 76.9%; Score 1569; DB 12; Length 3446;

Best Local Similarity 87.6%; Pred. No. 0;

Matches 1787; Conservative 0; Mismatches 190; Indels 64; Gaps 4;

QY 1 TCCTTCACAGCATTTGGAAGTCCTGAAGACAAGTCATTGGCAGTTCATTGATGGAGAG 60

Db 960 TCCTTCACAGCATTTGGAAGTCCTGAAGACAAGTCATTGGCAGTTCATTGATGGAGAG 1019

QY 61 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAAGTATTATCGTGGCTTCTTTC 120

Db 1020 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAAGTATTATCGTGGCTTCTTTC 1079

QY 121 TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCCTAATGATGTGGAAGTGGTGAAGA 180

Db 1080 TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCCTAATGATGTGGAAGTGGTGAAGA 1139

QY 181 CCAGTTTCACTACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCCGGTGG 240

Db 1140 CCAGTTTCACTACTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGGCCCGGTGG 1199

QY 241 TAATATTCTCAAAATGGGAAGTAAGCTGATTGGAACAGGAAAATTTACAGAAGATGAAGA 300

Db 1200 TAATATTCTCAAAATGGGAAGTAAGCTGATTGGAACAGGAAAATTTACAGAAGATGAAGA 1259

QY 301 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAAGATGGGAATGCCTCAGGCTAGC 360

Db 1260 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAAGATGGGAATGCCTCAGGCTAGC 1319

QY 361 TAGCATGGAAAACAAAGCAATTTACATAGAGTTTTAAATGGATCTCCAGAATCAGAAACT 420

Db 1320 TAGCATGGAAAACAAAGCAATTTACATAGAGTTTTAAATGGATCTCCAGAATC-GAAACT 1378

QY 421 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAGAAGAAACAAAGGAAAATGGAGGAAGA 480

Db 1379 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAGAAGAAACAAAGGAAAATGGAGGAAGA 1438

QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACACACATAAGGTGCTTCA 540

Db 1439 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACACACATAAGGTGCTTCA 1498

QY 541 AGAAGATCTAGAACAAGACAAGTCAAGGTCAATTTCTCTCACTCACTAGTGGTGGTAGT 600

Db 1499 AGAAGATCTAGAACAAGACAAGTCAAGGTCAATTTCTCTCACTCACTAGTGGTGGTAGT 1558

QY 601 TGATGAATCTAGTGGAGATCAGGCAACTGCTGCTTTTGAAGAAACAACACTTAAGGTATTGG 660

Db 1559 TGATGAATCTAGTGGAGATCAGGCAACTGCTGCTTTTGAAGAAACAACACTTAAGGTATTGG 1618

QY 661 AGATCGATGGCAAAACATCTGTAGATGGACAGAAGACCGCTGGGTCTTTTACAGACAG 720

Db 1619 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAGACAT 1678

QY 721 TTCTGACCAGTGGAGCGTCTGCACCTTCTCTCGAGGAACCTTCTGGTGTGGGTACAGCT 780

Db 1679 CCTTCTCAATGGCAACGCTTTACTGAGAACAGTCCCTTTTATAGTCATGGCTTTCAGA 1738

QY 781 GAAAGATGATGAATTAAGCCGGCAGGCGACCTATTGGAGGGCGACTTCCAGCAGTTCAGAA 840

Db 1739 AAAAGAAGATGCAGTGAACAAGATTTCACACAACCTGGCTTTAAAGATCAAAATGAAATGTT 1798

QY 841 GCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACCTAAAGAACCTCTAATCAT 900

Db 1799 ATCAAGTCTTCAAAAACCTGGCCGTTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 1858

QY 901 GAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAA 960

Db 1859 GGGCAAACTGTA-----TTCACCTCAAAACAAGATCTTCTTTCAACACTGAAG 1904

QY 961 ACTCTACCGAGGCGCCAGAGAGCTGCCCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCT 1020

Db 1905 AATAAGTCAGTGACCCAGAGACGGAAGCATGGCTGGA----- 1942

QY 1021 TCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGGAATAATGTAAACCTGCACTCCGC 1080

Db 1943 -----TAACCTTGCCCGGTGTGGGATAATTAGTCCAAAAAACAATTGAA----- 1985

QY 1081 TGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCAC 1140

Db 1986 -----AAGAGTACAGACAGACACCCTTGAAGACTCCAGGAACCTTCAAGAGGCCAC 2035

QY 1141 GGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGTGATCAAGGGATCCTGGCAGCCCGT 1200

Db 2036 GGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGTGATCAAGGGATCCTGGCAGCCCGT 2095

QY 1201 GGGCGATCTCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGG 1260

Db 2096 GGGCGATCTCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGG 2155

QY 1261 AGAAATTGCGCTCTGAAAGAGAACGTTGAGGCCACGTCGAATGACCTTCTCGCCACGTTAC 1320

Db 2156 AGAAATTGCGCTCTGAAAGAGAACGTTGAGGCCACGTCGAATGACCTTCTCGCCACGTTAC 2215

QY 1321 CACTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACCAG 1380

Db 2216 CACTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACCAG 2275

QY 1381 ATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAAGGCAGCTGCATGAAGCCACAG 1440

Db 2276 ATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAAGGCAGCTGCATGAAGCCACAG 2335

QY 1441 GGACTTTGGTCCAGCANCTCAGCACTTTCTTCCAGCTGTCTCCAGGTCCTCGGAGAG 1500

Db 2336 GGACTTTGGTCCAGCANCTCAGCACTTTCTTCCAGCTGTCTCCAGGTCCTCGGAGAG 2395

QY 1501 AGCCATCTCGCCAAAACAAAGTGCCTTACTATATCAACACGAGACTCAAAACAACCTTGTG 1560

Db 2396 AGCCATCTCGCCAAAACAAAGTGCCTTACTATATCAACACGAGACTCAAAACAACCTTGTG 2455

QY 1561 GGACCATCCCAAAATGACAGAGCTCTACCACTCTTTAGCTGAOCTGAATAATGTCAGATT 1620

Db 2456 GGACCATCCCAAAATGACAGAGCTCTACCACTCTTTAGCTGAOCTGAATAATGTCAGATT 2515

QY 1621 CTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTGTGGATCT 1680

Db 2516 CTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTGTGGATCT 2575

QY 1681 CTTGAGCCTGTCAAGCTGCATGATGATGCTTGGACCAGCAACACCTCAAGCAAAATGACCA 1740

Db 2576 CTTGAGCCTGTCAAGCTGCATGATGATGCTTGGACCAGCAACACCTCAAGCAAAATGACCA 2635

QY 1741 GCCCATGGATATCCTGTCAGATTATTAATTGTTTGACCACTATTTATGACCGCCTGGAGCA 1800

Db 2636 GCCCATGGATATCCTGTCAGATTATTAATTGTTTGACCACTATTTATGACCGCCTGGAGCA 2695

QY 1801 AGACACACAACAATTTGGTCAACGTCCTCTCTCGTGGATATGTCTGAACCTGGCTGCT 1860

Db 2696 AGACACACAACAATTTGGTCAACGTCCTCTCTCGTGGATATGTCTGAACCTGGCTGCT 2755

QY 1861 GAATGTTTATGATACGGGACGAACAGGGAGGATCCGTCTCTTTTAAAACTGGCAT 1920

Db 2756 GAATGTTTATGATACGGGACGAACAGGGAGGATCCGTCTCTTTTAAAACTGGCAT 2815

QY 1921 CATTTCCCTGTGTAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGC 1980

Db 2816 CATTTCCCTGTGTAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGC 2875

QY 1981 AAGTTC AACAGGATTTTGTGACCAAGCGCAGGCTGGCCCTCTTCTGCAATGATTTCTATCCA 2040

Db 2876 AAGTTC AACAGGATTTTGTGACCAAGCGCAGGCTGGCCCTCTTCTGCAATGATTTCTATCCA 2935

QY 2041 A 2041

Db 2936 A 2936

RESULT 11

US-09-845-416-6

; Sequence 6, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 3999

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-6

Query Match 75.6%; Score 1542; DB 12; Length 3999;

Best Local Similarity 80.7%; Pred. No. 0;

Matches 2041; Conservative 0; Mismatches 0; Indels 489; Gaps 1;

QY 1 TCCTTCACAGCATTGGAAGCTCCTGAAGACAAGTCAATTTGGCAGTTCATTTGATGGAGAG 60

Db 960 TCCTTCACAGCATTGGAAGCTCCTGAAGACAAGTCAATTTGGCAGTTCATTTGATGGAGAG 1019

QY 61 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAGAAGTATTATCGTGGCTTCTTTC 120

Db 1020 TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAGAAGTATTATCGTGGCTTCTTTC 1079

QY 121 TGCTGAGGACACATTGCAAGCAACAAGGAGAGATTTCTAATGATGTGGAGTGGTGAAGA 180

Db 1080 TGCTGAGGACACATTGCAAGCAACAAGGAGAGATTTCTAATGATGTGGAGTGGTGAAGA 1139

QY 181 CCAGTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCGGTTGG 240

Db 1140 CCAGTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCGGTTGG 1199

QY 241 TAATAATTCTACAATTGGGAAGTAAAGTGAATTTGGAACAGGAAAATTTATCAGAAGATGAAGA 300

Db 1200 TAATAATTCTACAATTGGGAAGTAAAGTGAATTTGGAACAGGAAAATTTATCAGAAGATGAAGA 1259

QY 301 AACTGAGTACAAGACCAGATGAATCTCCTTAATTCAGATGGGAATGCCTCAGGGTAGC 360

Db 1260 AACTGAGTACAAGACCAGATGAATCTCCTTAATTCAGATGGGAATGCCTCAGGGTAGC 1319

QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGATCTCCAGATTCAGAAACT 420

Db 1320 TAGCATGGAAAAACAAGCAATTACATAGAGTTTTTAATGSGATCTCCAGAAATCAGAAACT 1379

QY 421 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAGACAAAGGAAATGGAGGAAGA 480

Db 1380 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAGACAAAGGAAATGGAGGAAGA 1439

QY 481 GCCTCTTGGACCTGATCTTTGAAGACCTTAAACGCCCAAGTACAACAACATAAGGTGCTTCA 540

Db 1440 GCCTCTTGGACCTGATCTTTGAAGACCTTAAACGCCCAAGTACAACAACATAAGGTGCTTCA 1499

QY 541 AGAAGATCTAGAACAAAGAACAACTCAGGGTCAATTCCTCACTCACATGGTGGTGGTACT 600

Db 1500 AGAAGATCTAGAACAAAGAACAACTCAGGGTCAATTCCTCACTCACATGGTGGTGGTACT 1559

QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTTGGAGAAACAACCTTAAGGTATTGGG 660

Db 1560 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTTGGAGAAACAACCTTAAGGTATTGGG 1619

QY 661 AGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGCTGGGTTCCTTTTACAAGA--- 717

Db 1620 AGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGCTGGGTTCCTTTTACAAGACCA 1679

QY 718 ----- 717

Db 1680 GCCTGACCTAGCTCCTGGACTGACCACCTATTGSGAGCCTCTCCTACTCAGACTGTTACTCT 1739

QY 718 ----- 717

Db 1740 GGTGACACAACTGTGGTTACTTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 1799

QY 718 ----- 717

Db 1800 CTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAA 1859

QY 718 ----- 717

Db 1860 GTTCTCTGCCCTTACAGAAGTGAAGCTGAACAACACTGCCAATGTCTCTACAGGATGCTACCCG 1919

QY 718 ----- 717

Db 1920 TAAGGAAAGGCTCCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCAAGA 1979

QY 718 ----- 717

Db 1980 CCTCCAAGTGAAATTGAAGCTCACAGATGTTTATCACAACTGGATGAAACACAGCCA 2039

QY 718 ----- 717

Db 2040 AAAATCCTGAGATCCTCTGGAAGSTCCGATGATGCAGTCCCTGTTACAAGACGTTTGGGA 2099

QY 718 ----- 717

Db 2100 TAACATGAACCTCAAGTGGAGTGRACTTCGGAAAAAGTCTCTCAACATTIAGGTCCCATTT 2159

QY 718 -----CAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGGTG 771

Db 2160 GGAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGGTG 2219

QY 772 GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATGGAGGCGACTTTCOCAGC 831

Db 2220 GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATGGAGGCGACTTTCOCAGC 2279

QY 832 AGTTCAGAGCAGAACCGATGTACATPAGGGCCTTCAAGAGGGGAATTGAAACTAAAGAAC 891

Db 2280 AGTTCAGAGCAGAACCGATGTACATPAGGGCCTTCAAGAGGGGAATTGAAACTAAAGAAC 2339

QY 892 TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTGGAGG 951

Db 2340 TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTGGAGG 2399

QY 952 ACTAGAGAAACTCTACCAGGAGCCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCCGAATGT 1011

Db 2400 ACTAGAGAAACTCTACCAGGAGCCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCCGAATGT 2459

QY 1012 CACTCGGCTTCTACGAAACGAGCGTGAAGAGGTCAATACTAGTGGGAAAAAATTGAACCT 1071

Db 2460 CACTCGGCTTCTACGAAACGAGCGTGAAGAGGTCAATACTAGTGGGAAAAAATTGAACCT 2519

QY 1072 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTCA 1131

Db 2520 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTCA 2579

QY 1132 AGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGSGATCCTG 1191

Db 2580 AGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGSGATCCTG 2639

QY 1192 GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAGAAAGTCAAGGC 1251

Db 2640 GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAGAAAGTCAAGGC 2699

QY 1252 ACTTCGAGGAGAAAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCG 1311

Db 2700 ACTTCGAGGAGAAAAATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCG 2759

QY 1312 CCAGCTTACCACCTTTGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 1371

Db 2760 CCAGCTTACCACCTTTGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 2819

QY 1372 GAAACACCAGATGGAAGCTTCTGAGGTGGCCGCTCGAGGACCGAGTCAGGCAGCTGCATGA 1431

Db 2820 GAAACACCAGATGGAAGCTTCTGAGGTGGCCGCTCGAGGACCGAGTCAGGCAGCTGCATGA 2879

QY 1432 AGCCACAGGGACTTTTGTCCAGCATCTCAGCACTTTCTTCCACGCTGTCCAGGGTCC 1491

Db 2880 AGCCACAGGGACTTTTGTCCAGCATCTCAGCACTTTCTTCCACGCTGTCCAGGGTCC 2939

QY 1492 CTGGGAGAGAGCCCATCTCGCCAAACAAGTGCCTACTATATATCAACCACGAGACTCAAA 1551

Db 2940 CTGGGAGAGAGCCCATCTCGCCAAACAAGTGCCTACTATATCAACCACGAGACTCAAA 2999

QY 1552 AACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAA 1611

Db 3000 AACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATAA 3059

QY 1612 TGTCAAGATCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAGGCCCTTTG 1671

Db 3060 TGTCAAGATCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAGGCCCTTTG 3119

QY 1672 CTTGGATCTCTTGAGCCTGTCACTGCTGATGCTGATGCTTGGACCAACCACTCAAGCA 1731

Db 3120 CTTGGATCTCTTGAGCCTGTCACTGCTGATGCTGATGCTTGGACCAACCACTCAAGCA 3179

QY 1732 AAATGACCAGCCCATGGATATCCTGCAGATTCCTGCAGATTATTAATGTTTGACCACTATTATGACCG 1791

Db 3180 AAATGACCAGCCCATGGATATCCTGCAGATTCCTGCAGATTATTAATGTTTGACCACTATTATGACCG 3239

QY 1792 CTTGGAGCAAGAGCACAACAATTGGTCAACGTCCTCTCTCGGTGGATATGTCTGAA 1851

Db 3240 CTTGGAGCAAGAGCACAACAATTGGTCAACGTCCTCTCTCGGTGGATATGTCTGAA 3299

QY 1852 CTGGCTGTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTCTCTCTTTAA 1911

Db 3300 CTGGCTGTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTCTCTCTTTAA 3359

QY 1912 AACTGGCATCATTTCCCTGTGTAAAGCACATTTTGGAAGACATTTGGAAGACATACCTTTTCAA 1971

Db 3360 AACTGGCATCATTTCCCTGTGTAAAGCACATTTTGGAAGACATACCTTTTCAA 3419

QY 1972 GCAAGTGGCAAGTTCACAGGATTTTGTGACCAGCGGAGGCTGGCCTCTCTGATGA 2031

Db 3420 GCAAGTGGCAAGTTCACAGGATTTTGTGACCAGCGGAGGCTGGCCTCTCTGATGA 3479

QY 2032 TTCTATCCAA 2041

Db 3480 TTCTATCCAA 3489

RESULT 12
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 75.6%; Score 1542; DB 12; Length 4966;
Best Local Similarity 80.7%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 489; Gaps 1;

QY	1	TCCTTCACAGCATTTGGAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGATGGAGAG	60
Db	1717	TCCTTCACAGCATTTGGAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGATGGAGAG	1776
QY	61	TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAAAGTATATCGTGGCTTCTTC	120
Db	1777	TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAAAGTATATCGTGGCTTCTTC	1836
QY	121	TGCTGAGGACACATTTGCAAGCACAAAGGAGAGATTTCTAATGATGTGGAAAGTGGTGAAGA	180
Db	1837	TGCTGAGGACACATTTGCAAGCACAAAGGAGAGATTTCTAATGATGTGGAAAGTGGTGAAGA	1896
QY	181	CCAGTTTCATCTACTATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGGGTTGG	240
Db	1897	CCAGTTTCATCTACTATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGGGTTGG	1956
QY	241	TAATATTCACAAATTGGGAAGTAAGCTGAATGGAACAGAGAAAATATCAGAAGATGAAGA	300
Db	1957	TAATATTCACAAATTGGGAAGTAAGCTGAATGGAACAGAGAAAATATCAGAAGATGAAGA	2016
QY	301	AACTGAAGTCAAGAGCAGATGAATCTCTAAATCAAGATGGGAATGCCCTCAGGTTAGC	360
Db	2017	AACTGAAGTCAAGAGCAGATGAATCTCTAAATCAAGATGGGAATGCCCTCAGGTTAGC	2076
QY	361	TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT	420
Db	2077	TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAACT	2136
QY	421	GAAAGAGTTGAATGACTGGCTAACAAAACAGAAAGAAACAAAGAAAATGGAGGAAGA	480
Db	2137	GAAAGAGTTGAATGACTGGCTAACAAAACAGAAAGAAACAAAGAAAATGGAGGAAGA	2196
QY	481	GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCCAAGTACAAACATAGGTGCTTCA	540
Db	2197	GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCCAAGTACAAACATAGGTGCTTCA	2256
QY	541	AGAGATCTAGAACAAAGAACAGTCAAGGTCAATTCCTCACTCACTCACTCACTCACTCA	600
Db	2257	AGAGATCTAGAACAAAGAACAGTCAAGGTCAATTCCTCACTCACTCACTCACTCACTCA	2316
QY	601	TGATGAATCTAGTGGAGATCAGCGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATGGG	660
Db	2317	TGATGAATCTAGTGGAGATCAGCGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATGGG	2376
QY	661	AGATCGATGGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGA---	717
Db	2377	AGATCGATGGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGACCA	2436

QY	718	-----	717
Db	2437	GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCTCTCCTACTCAGACTGTACTCT	2496
QY	718	-----	717
Db	2497	GGTGACACACACCTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTC	2556
QY	718	-----	717
Db	2557	CTTGATGTTGGAGGTACCTACTCATATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAA	2616
QY	718	-----	717
Db	2617	GTTTCTTGCCTGGCTTACAGAAGCTGAAACAACCTGCCAATGTCTTACAGGATGTACCCG	2676
QY	718	-----	717
Db	2677	TAAGGAAAGGCTCCTAGAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA	2736
QY	718	-----	717
Db	2737	CCTCCAAGGTGAAATGAAGCTCACACAGATGTTTATCACAACTGGATGAAACAGCCA	2796
QY	718	-----	717
Db	2797	AAAAATCCTGAGATCCCTGGAAAGTTCCGATGATGCAGTCTCTTACAAAAGACGTTTGA	2856
QY	718	-----	717
Db	2857	TAACATGAACCTCAAGTGGAGTGAACCTTCGGAATAAGTCTCTCAACATTAGTCCCATTT	2916
QY	718	-----CAGTTCTGACCAAGTGAAGCGTCTGCACCTTCTCTGCAGAACTTCTGCTGTG	771
Db	2917	GGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTCTCTGCAGAACTTCTGCTGTG	2976
QY	772	GCATCAGCTGAAAGATGATGAATTAAGCGCGCAGGCACTTATGGAGCGGCTTCCAGC	831
Db	2977	GCATCAGCTGAAAGATGATGAATTAAGCGCGCAGGCACTTATGGAGCGGCTTCCAGC	3036
QY	832	AGTTCAGAAAGCAGACGATGTACATAGGGCTTCAAGAGGGGAATTGAAAACTAAAGAAC	891
Db	3037	AGTTCAGAAAGCAGACGATGTACATAGGGCTTCAAGAGGGGAATTGAAAACTAAAGAAC	3096
QY	892	TGTAATCATGACTACTCTTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGAAG	951
Db	3097	TGTAATCATGACTACTCTTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGAAG	3156
QY	952	ACTAGAGAAACTCTACAGAGCCCGCAGAGAGTGCCTCTGAGGAGAGCCCGCAATGT	1011
Db	3157	ACTAGAGAAACTCTACAGAGCCCGCAGAGAGTGCCTCTGAGGAGAGCCCGCAATGT	3216
QY	1012	CACCTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATAGTGGGAAAAATTGAACT	1071
Db	3217	CACCTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATAGTGGGAAAAATTGAACT	3276
QY	1072	GCATCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTGAAAGACTCCAGGAACCTCA	1131
Db	3277	GCATCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTGAAAGACTCCAGGAACCTCA	3336
QY	1132	AGAGCCACCGGATGAGCTGGACCTCAAGCTGCGGCAAGCTGAGGTGATCAAGGGATCTG	1191
Db	3337	AGAGCCACCGGATGAGCTGGACCTCAAGCTGCGGCAAGCTGAGGTGATCAAGGGATCTG	3396
QY	1192	GCAGCCCGTGGCGGATCTCCTCATCTGACTCTCTCCAGATCACCTCCAGAAAAGTCAAGG	1251
Db	3397	GCAGCCCGTGGCGGATCTCCTCATCTGACTCTCTCCAGATCACCTCCAGAAAAGTCAAGG	3456
QY	1252	ACTTCGAGGAGAAATTCGCCCTCTGAAAGAGAACGTGAGCCACGTCATGACCTGCTCG	1311
Db	3457	ACTTCGAGGAGAAATTCGCCCTCTGAAAGAGAACGTGAGCCACGTCATGACCTGCTCG	3516

QY 1312 CCAGCTTACCACCTTTGGGCAATTCAGCTCTCCACGATATACCTCAGCACTCTCTGGAAGACCT 1371
|||||
Db 3517 CCAGCTTACCACCTTTGGGCAATTCAGCTCTCCACGATATACCTCAGCACTCTCTGGAAGACCT 3576
|||||
QY 1372 GAACACCAGATGGAAGCTTCTCCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 1431
|||||
Db 3577 GAACACCAGATGGAAGCTTCTCCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 3636
|||||
QY 1432 AGCCACAGAGGACTTTGGTCACGACATCTCAGCACTTCTTTCCACGTCGTCTCCAGGTC 1491
|||||
Db 3637 AGCCACAGAGGACTTTGGTCACGACATCTCAGCACTTCTTTCCACGTCGTCTCCAGGTC 3696
|||||
QY 1492 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACACGAGACTCAAAC 1551
|||||
Db 3697 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACACGAGACTCAAAC 3756
|||||
QY 1552 AACTGTGCTGGACCATCCCAAATGACAGAGCTCTACCACTCTTAGCTGACCTGAATAA 1611
|||||
Db 3757 AACTGTGCTGGACCATCCCAAATGACAGAGCTCTACCACTCTTAGCTGACCTGAATAA 3816
|||||
QY 1612 TGTGAGATTCTCAGCTTATAGACTGCCATGAAACTCCGAGACTGCGAGAAGGCCCTTG 1671
|||||
Db 3817 TGTGAGATTCTCAGCTTATAGACTGCCATGAAACTCCGAGACTGCGAGAAGGCCCTTG 3876
|||||
QY 1672 CTTGGATCTCTTGAGCCTGTGACGTGATGATGCCCTTGACCAGCAGCAACCTCAAGCA 1731
|||||
Db 3877 CTTGGATCTCTTGAGCCTGTGACGTGATGATGCCCTTGACCAGCAGCAACCTCAAGCA 3936
|||||
QY 1732 AATGACCAAGCCATGGATATCCTGCGAGATTATTAATTGTTGACCACTATTATGACCG 1791
|||||
Db 3937 AATGACCAAGCCATGGATATCCTGCGAGATTATTAATTGTTGACCACTATTATGACCG 3996
|||||
QY 1792 CCTGGAGCAAGACACACAATTTGGTCAACCTCCCTCTGCTGGATATGTCTGAA 1851
|||||
Db 3997 CCTGGAGCAAGACACACAATTTGGTCAACCTCCCTCTGCTGGATATGTCTGAA 4056
|||||
QY 1852 CTGGCTGTGATGTTTATGATACGGGACGAAACAGGAGGATCCGTGCTGCTTTTAA 1911
|||||
Db 4057 CTGGCTGTGATGTTTATGATACGGGACGAAACAGGAGGATCCGTGCTGCTTTTAA 4116
|||||
QY 1912 AACTGGCATCATTTCCCTGTGTAAGACACATTTGGAAGACAGTACAGATACCTTTTCAA 1971
|||||
Db 4117 AACTGGCATCATTTCCCTGTGTAAGACACATTTGGAAGACAGTACAGATACCTTTTCAA 4176
|||||
QY 1972 GCAAGTGGCAAGTCAACAGGATTTGTGACAGCGCAGGCTGGGCTCTCTGCAATGA 2031
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Db 4177 GCAAGTGGCAAGTCAACAGGATTTGTGACAGCGCAGGCTGGGCTCTCTGCAATGA 4236
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QY 2032 TTCTATCCAA 2041
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Db 4237 TTCTATCCAA 4246
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RESULT 13
US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 75.6%; Score 1542; DB 12; Length 4990;
Best Local Similarity 80.7%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 489; Gaps 1;
QY 1 TCCTTCACAGCATTTTGAAGCTCCTGAAGACAAAGTCATTTGGCAGCTTCATTGATGGAGAG 60
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Db 1741 TCCTTCACAGCATTTTGAAGCTCCTGAAGACAAAGTCATTTGGCAGCTTCATTGATGGAGAG 1800
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QY 61 TGAAGTAAACCTGGACCGCTTATCAACACAGCTTTAGBAGAAGTATATCGTGGCTTCTTTC 120
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Db 1801 TGAAGTAAACCTGGACCGCTTATCAACACAGCTTTAGBAGAAGTATATCGTGGCTTCTTTC 1860
|||||
QY 121 TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA 180
|||||
Db 1861 TGCTGAGGACACATTGCAAGCACAAAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA 1920
|||||
QY 181 CCAGTTTCATACCTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGCGGTGG 240
|||||
Db 1921 CCAGTTTCATACCTCATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGCGGTGG 1980
|||||
QY 241 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGAAAAATATCAGAAGATGAAGA 300
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Db 1981 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGAAAAATATCAGAAGATGAAGA 2040
|||||
QY 301 AACTGAAGTACAAGAGAGATGAATCTCCTAAATTCGAAGATGGAAATGCCCTCAGGGTAGC 360
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Db 2041 AACTGAAGTACAAGAGAGATGAATCTCCTAAATTCGAAGATGGAAATGCCCTCAGGGTAGC 2100
|||||
QY 361 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAAC 420
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Db 2101 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAAC 2160
|||||
QY 421 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAACAGAAAAATGGAGGAAGA 480
|||||
Db 2161 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAACAGAAAAATGGAGGAAGA 2220
|||||
QY 481 GCCTCTTGACCTGATCTTGAAGACCTAAACGCCCAAGTACACAAACATAAGGTGCTTCA 540
|||||
Db 2221 GCCTCTTGACCTGATCTTGAAGACCTAAACGCCCAAGTACACAAACATAAGGTGCTTCA 2280
|||||
QY 541 AGAAGATCTAGAACAAAGAACAAAGTCAGGTCATTTCTCTCACTACATGGTGGGTAGT 600
|||||
Db 2281 AGAAGATCTAGAACAAAGAACAAAGTCAGGTCATTTCTCTCACTACATGGTGGGTAGT 2340
|||||
QY 601 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTGGAAAGAACAACTTAAGGTATTGG 660
|||||
Db 2341 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTGGAAAGAACAACTTAAGGTATTGG 2400
|||||
QY 661 AGATCGATGGSCAAACATCTGTAGATGGACAGAAAGACCGCTGGTCTTTTACAAGA --- 717
|||||
Db 2401 AGATCGATGGSCAAACATCTGTAGATGGACAGAAAGACCGCTGGTCTTTTACAAGACCA 2460
|||||
QY 718 ----- 717
Db 2461 GCCTGACCTAGCTCCTGGACTGACCACATATTGGAGCCTCTCCTACTCAGACTGTACTCT 2520
|||||
QY 718 ----- 717
Db 2521 GGTGACACACCTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 2580
|||||
QY 718 ----- 717
Db 2581 CTTGATGTTGGAGGTACCTACTCATATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAA 2640
|||||
QY 718 ----- 717
Db 2641 GTTCTTGCCTGGCTTACAGAAGCTGAACAACTGCCAATGTCTCTACAGGATGCTACCCG 2700
|||||
QY 718 ----- 717
Db 2701 TAAGGAAAGGCTCCTAGAGACTCCCAAGGGAGTAAAGAGCTGATGAACAAATGGCAAGA 2760
|||||

QY 718 ----- 717
Db 2761 CCTCCAAGGTGAATGAAGCTCACACAGAIGTATTATCACAACTGGATGAAAACAGCCA 2820
QY 718 ----- 717
Db 2821 AAAAATCCTGAGATCCCTGGAAAGTTCGGATGATGCAGTCCCTGTTACAAAGACGTTTGA 2880
QY 718 ----- 717
Db 2881 TAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 2940
QY 718 -----CAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTG 771
Db 2941 GGAAGCGAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTG 3000
QY 772 GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTANTGGAGGCACCTTCCAGC 831
Db 3001 GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTANTGGAGGCACCTTCCAGC 3060
QY 832 AGTTCAGAAGCAGAAAGATGTACATFAGGGCCTTCAAGAGGGGAATTTGAAAACATAAGAAC 891
Db 3061 AGTTCAGAAGCAGAAAGATGTACATFAGGGCCTTCAAGAGGGGAATTTGAAAACATAAGAAC 3120
QY 892 TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAG 951
Db 3121 TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAG 3180
QY 952 ACTAGAGAAACTCTACAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAAATGT 1011
Db 3181 ACTAGAGAAACTCTACAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAAATGT 3240
QY 1012 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAATTTGAACCT 1071
Db 3241 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAATTTGAACCT 3300
QY 1072 GCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCA 1131
Db 3301 GCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCA 3360
QY 1132 AGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAAAGCTGAGGTGATCAAGGGATCCTG 1191
Db 3361 AGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAAAGCTGAGGTGATCAAGGGATCCTG 3420
QY 1192 GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAAGG 1251
Db 3421 GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAAGG 3480
QY 1252 ACTTCGAGAGAAATTCGCGCTCTGAAAGAGAACTGAGCCAGCTCAATGACCTTGCTCG 1311
Db 3481 ACTTCGAGAGAAATTCGCGCTCTGAAAGAGAACTGAGCCAGCTCAATGACCTTGCTCG 3540
QY 1312 CCAGCTTACCACTTTGGCATTTCAGCTCTCAACGATATAACCTCAGCACTCTGGAAGACCT 1371
Db 3541 CCAGCTTACCACTTTGGCATTTCAGCTCTCAACGATATAACCTCAGCACTCTGGAAGACCT 3600
QY 1372 GAACACCAAGATGGAAGCTTCTGCAGGTGGCCGCTCGAGGACCGAGTCAAGCTGCATGA 1431
Db 3601 GAACACCAAGATGGAAGCTTCTGCAGGTGGCCGCTCGAGGACCGAGTCAAGCTGCATGA 3660
QY 1432 AGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTCTGTCCAGGGTCC 1491
Db 3661 AGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTCTGTCCAGGGTCC 3720
QY 1492 CTGGGAGAGAGCCATCTCGCCAAACRAAGTGCCTTACTATATCAACCCAGGACTCAAAC 1551
Db 3721 CTGGGAGAGAGCCATCTCGCCAAACRAAGTGCCTTACTATATCAACCCAGGACTCAAAC 3780
QY 1552 AACTTGTGGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTAGCTGACCTGAATAA 1611
Db 3781 AACTTGTGGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTAGCTGACCTGAATAA 3840
QY 1612 TGTCAATCTCAGCTTATAGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTTG 1671

Db 3841 TGTCAGATCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAGGCCCTTTG 3900
QY 1672 CTTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTTGGACAGCAACAACCTCAAGCA 1731
Db 3901 CTTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTTGGACAGCAACAACCTCAAGCA 3960
QY 1732 AAATGACAGCCCATGGATATCCTGAGATTTAATTAATGTTTGACCACTATTATGACCG. 1791
Db 3961 AAATGACAGCCCATGGATATCCTGAGATTTAATTAATGTTTGACCACTATTATGACCG 4020
QY 1792 CCTGGAGCAAGAGACACAACAATTTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAA 1851
Db 4021 CCTGGAGCAAGAGACACAACAATTTGGTCAACGTCCTCTCTGCGTGGATATGTCTGAA 4080
QY 1852 CTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGTCCTCTCTTTAA 1911
Db 4081 CTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGTCCTCTCTTTAA 4140
QY 1912 AACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAA 1971
Db 4141 AACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAA 4200
QY 1972 GCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCTCCTTCTGCATGA 2031
Db 4201 GCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGGCTGGGCTCCTTCTGCATGA 4260
QY 2032 TTCTATCCAA 2041
Db 4261 TTCTATCCAA 4270

RESULT 14
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 66.6%; Score 1359; DB 12; Length 4182;
Best Local Similarity 75.2%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 672; Gaps 1;
QY 1 TCCTTCACAGCATTGGAGCTCCTGAAAGACAAGTCAATTTGGCAGTTCATTGATGGAGAG 60
Db 960 TCCTTCACAGCATTGGAGCTCCTGAAAGACAAGTCAATTTGGCAGTTCATTGATGGAGAG 1019
QY 61 TGAAGTAACTGGACCGTTATCAACAGCTTTAGAAAGATATATCGTGGCTTCTTC 120
Db 1020 TGAAGTAACTGGACCGTTATCAACAGCTTTAGAAAGATATATCGTGGCTTCTTC 1079
QY 121 TGCTGAGGACACATTGCAGCACAAGGAGAGATTTCTAATGATGGAAGTGTGAAAGA 180
Db 1080 TGCTGAGGACACATTGCAGCACAAGGAGAGATTTCTAATGATGGAAGTGTGAAAGA 1139
QY 181 CCAGTTTCTACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCGGTGG 240
Db 1140 CCAGTTTCTACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCGGTGG 1199

QY 241 TAATATTCTACAATTGGGAAGTAAGCTGATTGGACAGAGAAAATTATCAGAAGATGAAGA 300
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Db 1200 TAATATTCTFACAATTGGGAAGTAAGCTGATTGGACAGAGAAAATTATCAGAAGATGAAGA 1259
QY 301 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGATGGGAATGCCTCAGGGTAGC 360
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Db 1260 AACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGATGGGAATGCCTCAGGGTAGC 1319
QY 361 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT 420
|||||
Db 1320 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTTTAATGGATCTCCAGAATCAGAAACT 1379
QY 421 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAAGAAACAAGGAAAAATGGAGGAAGA 480
Db 1380 GAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACAAGGAAAAATGGAGGAAGA 1439
QY 481 GCCTCTTGGACCTGATCTTTGAAGACCTAAAACGCCAAGTACAACAACAATAAGGTGCTTCA 540
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Db 1440 GCCTCTTGGACCTGATCTTTGAAGACCTAAAACGCCAAGTACAACAACAATAAGGTGCTTCA 1499
QY 541 AGAAGATCTAGAACAAGAACAAAGTCAAGGTCAATTTCTCACTCACATGCTGGTGGTAGT 600
Db 1500 AGAAGATCTAGAACAAGAACAAAGTCAAGGTCAATTTCTCACTCACATGCTGGTGGTAGT 1559
QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAAACAACCTTAAGGTATTGGG 660
Db 1560 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAAACAACCTTAAGGTATTGGG 1619
QY 561 AGATCGATGGSCAAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAAGA--- 717
Db 1620 AGATCGATGGSCAAACATCTGTAGATGGACAGAACCCGCTGGGTCTTTTACAAGACAT 1679
QY 718 ----- 717
Db 1680 CCTTCTCAAATGGCAACGCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTCAGA 1739
QY 718 ----- 717
Db 1740 AAAAGAAGATGCAGTGAACAAGATTACACAACACTGGCTTTAAAGATCAAAATGAATGTT 1799
QY 718 ----- 717
Db 1800 ATCAAGTCTTCAAAAACCTGCGCGTTTTTAAAACGGGATCAGAAAGAAAAGCAATCCAT 1859
QY 718 ----- 717
Db 1860 GGGCAAACTGTATTCACTCAACAAGATCTTCTTTCAACACTGAAGATAAGTCAGTGAC 1919
QY 718 ----- 717
Db 1920 CCAGAAGACGGGAAGCATGGCTGGATAACHTTGGCCGGTGTGGGATAATTAGTCCAAAA 1979
QY 718 ----- 717
Db 1980 ACTTGAAAAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGA 2039
QY 718 ----- 717
Db 2040 AAAGTTTCTTGCTGGCTTACAGAAGCTGAAACAACACTGCCAATGTCTCCTACAGGATGCTAC 2099
QY 718 ----- 717
Db 2100 CCCTAAGGAAGGCTCCTAGAGACTCCRAAGGAGTAAAGAGCTGATGAACAACATGGCA 2159
QY 718 ----- 717
Db 2160 AGACCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACACAG 2219
QY 718 ----- 717
Db 2220 CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTACAAAGACGTTT 2279
QY 718 ----- 717

Db 2280 GGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAATAAGTCTCTCAACATTAGTCCCA 2339
QY 718 -----CAGTTCTGACCAGTGGAAAGCGTCTGCAACCTTTTCTCTGCAGGAACCTTCTGGT 768
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Db 2340 TTTGGAAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCAACCTTTTCTCTGCAGGAACCTTCTGGT 2399
QY 769 GTGGCTACAGCTGAAAAGATGATGAATTAAGCCCGGAGGCAACCTTATTTGGAGCGCACTTTCC 828
|||||
Db 2400 GTGGCTACAGCTGAAAAGATGATGAATTAAGCCCGGAGGCAACCTTATTTGGAGCGCACTTTCC 2459
QY 829 AGCAGTTTCAGAAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACCTAAAGA 888
Db 2460 AGCAGTTTCAGAAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACCTAAAGA 2519
QY 889 ACCTGTAATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGA 948
Db 2520 ACCTGTAATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGA 2579
QY 949 AGGACTAGAGAAACTCTACAGGAGGCCAGAGAGTGCCTCTGAGGAGAGAGGCCAGAA 1008
Db 2580 AGGACTAGAGAAACTCTACAGGAGGCCAGAGAGTGCCTCTGAGGAGAGAGGCCAGAA 2639
QY 1009 TGTCACTCGGCTTCTACGAAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAATTGAA 1068
Db 2640 TGTCACTCGGCTTCTACGAAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAATTGAA 2699
QY 1069 CCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAAC 1128
Db 2700 CCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAAC 2759
QY 1129 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATC 1188
Db 2760 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATC 2819
QY 1189 CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 1248
Db 2820 CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 2879
QY 1249 GGCACCTTCGAGGAGAAAATTGCGCTCTGAAAAGAGAACGCTGAGCCAGCTCAATGACCTTGC 1308
Db 2880 GGCACCTTCGAGGAGAAAATTGCGCTCTGAAAAGAGAACGCTGAGCCAGCTCAATGACCTTGC 2939
QY 1309 TCGCCAGCTTACCACCTTGGGCATTCAGCTCTCAOCTGATAACCTCAGCACTCTGGAAGA 1368
Db 2940 TCGCCAGCTTACCACCTTGGGCATTCAGCTCTCAOCTGATAACCTCAGCACTCTGGAAGA 2999
QY 1369 CCTGAACACCAAGATGGAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAAGCACTGCA 1428
Db 3000 CCTGAACACCAAGATGGAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAAGCACTGCA 3059
QY 1429 TGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTTTCCACGCTCTGTCAGGG 1488
Db 3060 TGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTTTCCACGCTCTGTCAGGG 3119
QY 1489 TCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCA 1548
Db 3120 TCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCA 3179
QY 1549 AACCAACTTGTGGGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAA 1608
Db 3180 AACCAACTTGTGGGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAA 3239
QY 1609 TAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAAGACTGCAGAAAGCCCT 1668
Db 3240 TAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAAGACTGCAGAAAGCCCT 3299
QY 1669 TTGCTTGGATCTCTTGAAGCTGTGAGTGCATGTGATGCCTTGGACCAGCACAACTCAA 1728
Db 3300 TTGCTTGGATCTCTTGAAGCTGTGAGTGCATGTGATGCCTTGGACCAGCACAACTCAA 3359
QY 1729 GCAAAATGACCAGCCCATGGATATCCTGCAGATTATTAATTTGTTGACCACCTATTATGA 1788
|||||

Db 3157 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGCACTTTCC 3216

QY 829 AGCAGTTCAGAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAACTAAAGA 888

Db 3217 AGCAGTTCAGAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAACTAAAGA 3276

QY 889 ACCTGTAATCATGAGTACTCTTTGAGACTGTACGAATATTCTGCAGAGCAGCCCTTTGGA 948

Db 3277 ACCTGTAATCATGAGTACTCTTTGAGACTGTACGAATATTCTGCAGAGCAGCCCTTTGGA 3336

QY 949 AGGACTAGAGAAACTCTACCAGGAGCCCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCCCAGAA 1008

Db 3337 AGGACTAGAGAAACTCTACCAGGAGCCCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCCCAGAA 3396

QY 1009 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAATAATTGAA 1068

Db 3397 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAATAATTGAA 3456

QY 1069 CCTGCACTCGCGTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACT 1128

Db 3457 CCTGCACTCGCGTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACT 3516

QY 1129 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAAAGCTGGAGGTGATCAAGGGATC 1188

Db 3517 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAAAGCTGGAGGTGATCAAGGGATC 3576

QY 1189 CTGGCAGCCCGTGGCGGATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 1248

Db 3577 CTGGCAGCCCGTGGCGGATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 3636

QY 1249 GGCACCTTCGAGGAGAAATTCGCGCTCTGAAAGAGAGAGCTGAGCCAGCTCAATGACCTTGC 1308

Db 3637 GGCACCTTCGAGGAGAAATTCGCGCTCTGAAAGAGAGAGCTGAGCCAGCTCAATGACCTTGC 3696

QY 1309 TCGCCAGCTTACCCTTTGGGCATTCAGCTCTCAACGTATAACCTCAGCACTCTGGAAGA 1368

Db 3697 TCGCCAGCTTACCCTTTGGGCATTCAGCTCTCAACGTATAACCTCAGCACTCTGGAAGA 3756

QY 1369 CCTGAACACACAGATGGAAGCTTCTGCAAGTGGCCGTGAGGACCAGGATCAGGAGCTGCA 1428

Db 3757 CCTGAACACACAGATGGAAGCTTCTGCAAGTGGCCGTGAGGACCAGGATCAGGAGCTGCA 3816

QY 1429 TGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCACGTCTGTCCAGGG 1488

Db 3817 TGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCACGTCTGTCCAGGG 3876

QY 1489 TCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCCAGGAGACTCA 1548

Db 3877 TCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCCAGGAGACTCA 3936

QY 1549 AACAACTTGTGGGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAA 1608

Db 3937 AACAACTTGTGGGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAA 3996

QY 1609 TAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCAGAAAGGCCCT 1668

Db 3997 TAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCAGAAAGGCCCT 4056

QY 1669 TTGCTTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTTGGACCAGCACAACTCAA 1728

Db 4057 TTGCTTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTTGGACCAGCACAACTCAA 4116

QY 1729 GCAAAATGACCAGCCCATGGATATCCTGCAGATTATTAATTGTTGACCACCTATTATGA 1788

Db 4117 GCAAAATGACCAGCCCATGGATATCCTGCAGATTATTAATTGTTGACCACCTATTATGA 4176

QY 1789 CCGCCTGGAGCAAGAGCAACAATAATTTGGTCAACGTCCTCTCTGCGTGGATATGTCT 1848

Db 4177 CCGCCTGGAGCAAGAGCAACAATAATTTGGTCAACGTCCTCTCTGCGTGGATATGTCT 4236

QY 1849 GAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGCTCTCTTT 1908

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QY 1909 TAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTTGGAAAGACAAGTACAGATACCTTTT 1968

Db 4297 TAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTTGGAAAGACAAGTACAGATACCTTTT 4356

QY 1969 CAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCCAGCGCAGGCTGGGCTCCTTCTGCA 2028

Db 4357 CAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCCAGCGCAGGCTGGGCTCCTTCTGCA 4416

QY 2029 TGATTCTATCCAA 2041

Db 4417 TGATTCTATCCAA 4429

Search completed: September 24, 2003, 11:52:29
Job time : 501.352 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 ; Search time 110.733 Seconds
(without alignments)
7976.007 Million cell updates/sec

Title: US-09-845-416-14_COPY_1000_3000
Perfect score: 2001
Sequence: 1 ggcagttcattgatggagag.....cattgagccaagtgtccgga 2001

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents_NA:*
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2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
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6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score		Query Match %	Length	DB ID	Description
1	1002.6	50.1	5952	4	US-09-687-875A-1	Sequence 1, Appli
2	991.6	49.6	13977	4	US-09-484-970B-60	Sequence 60, Appl
C 3	869.8	43.5	19307	3	US-08-836-022A-10	Sequence 10, Appl
C 4	869.8	43.5	19307	3	US-09-427-048A-10	Sequence 10, Appl
5	490.6	24.5	6045	4	US-09-091-501B-7	Sequence 7, Appli
6	490.6	24.5	10320	4	US-09-091-501B-9	Sequence 9, Appli
7	79.4	4.0	200	4	US-09-091-501B-5	Sequence 5, Appli
8	78.6	3.9	200	4	US-09-091-501B-4	Sequence 4, Appli
9	78.6	3.9	200	4	US-09-091-501B-6	Sequence 6, Appli
C 10	74.6	3.7	7218	1	US-08-232-463-14	Sequence 14, Appl
11	44.2	2.2	2574	4	US-09-668-313A-10	Sequence 10, Appl
12	42.8	2.1	1179	4	US-09-107-532A-1186	Sequence 1186, Ap
13	42.8	2.1	1690	4	US-09-620-312D-69	Sequence 69, Appl
14	42.8	2.1	7812	3	US-09-368-590-1	Sequence 1, Appli
C 15	42.4	2.1	2704	3	US-08-857-076-44	Sequence 44, Appl
C 16	42.4	2.1	3499	3	US-08-857-076-43	Sequence 43, Appl
17	39.4	2.0	2223	1	US-08-257-073-4	Sequence 4, Appli
18	38.8	1.9	289	3	US-09-007-005-17	Sequence 17, Appl
19	38.8	1.9	289	3	US-09-244-796-17	Sequence 17, Appl
20	38.8	1.9	1821	4	US-08-477-831C-1	Sequence 1, Appli
21	38.8	1.9	1885	4	US-08-477-831C-9	Sequence 9, Appli
22	38.8	1.9	1896	4	US-08-477-831C-10	Sequence 10, Appl
23	38.8	1.9	1961	4	US-08-477-831C-8	Sequence 8, Appli
24	38.8	1.9	2968	4	US-08-477-831C-13	Sequence 13, Appl
25	38.8	1.9	3044	4	US-08-477-831C-12	Sequence 12, Appl
26	38.4	1.9	7672	4	US-09-220-132-24	Sequence 24, Appl
27	38.2	1.9	428	4	US-09-668-313A-3	Sequence 3, Appli

28	38.2	1.9	1848	4	US-09-134-001C-447	Sequence 447, App
29	38.2	1.9	4439	4	US-09-668-313A-17	Sequence 17, Appl
C 30	37.4	1.9	2082	3	US-08-985-335-4	Sequence 4, Appli
C 31	37.4	1.9	2082	3	US-09-410-372-4	Sequence 4, Appli
C 32	37.2	1.9	2915	4	US-09-336-115C-5	Sequence 5, Appli
C 33	37.2	1.9	3902	4	US-08-961-527-212	Sequence 212, App
34	36.8	1.8	4929	4	US-09-620-312D-674	Sequence 674, App
35	36	1.8	608	3	US-09-385-982-236	Sequence 236, App
36	36	1.8	2763	1	US-08-248-466B-2	Sequence 2, Appli
37	35.8	1.8	633	4	US-09-134-001C-578	Sequence 578, App
38	35.6	1.8	2447	2	US-09-014-969-14	Sequence 14, Appl
39	35.6	1.8	4868	1	US-08-139-937-12	Sequence 12, Appl
40	35.6	1.8	4868	5	PCT-US93-11310-12	Sequence 12, Appl
41	35.6	1.8	8257	4	US-09-595-684B-30	Sequence 30, Appl
42	35.6	1.8	8789	1	US-08-328-254-5	Sequence 5, Appli
43	35.6	1.8	10136	1	US-08-353-700-2	Sequence 2, Appli
44	35.6	1.8	10136	5	PCT-US95-16216-2	Sequence 2, Appli
45	35.4	1.8	560	4	US-09-220-132-167	Sequence 167, App

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Paul
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPlicing
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc.feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match	50.1%	Score	1002.6;	DB	4;	Length	5952;
Best Local Similarity	99.6%	Pred. No.	4.2e-301;				
Matches	1005;	Conservative	0;	Mismatches	4;	Indels	0;
						Gaps	0;
QY	993	ACAGCACAGACCCCTTGAAAGACTCCAGGAAGTCAAGAGCCACGGATGAGCTGGACCTC	1052				
Db	3679	ATAGATGAGACCCCTTGAAAGACTCCAGGAAGTCAAGAGCCACGGATGAGCTGGACCTC	3738				
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Db	3799	GACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATGGCGCCTCTG	3858				
QY	1173	AAAGAGAACGTGAGCCACGTCATGACCTTCTCGCCAGCTTACCACCTTGGGCAATTCAG	1232				
Db	3859	AAAGAGAACGTGAGCCACGTCATGACCTTCTCGCCAGCTTACCACCTTGGGCAATTCAG	3918				
QY	1233	CTCTCACCGTATACCTCAGCACTCTGGAGACCTGAACACCAAGATGAAGCTTCTGCGAG	1292				

Db 3919 CTCTCACCGTATAAOCCTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAG 3978
QY 1293 GTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGACCTTTGGTCCAGCA 1352
Db 3979 GTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGACCTTTGGTCCAGCA 4038
QY 1353 TCTCAGCACTTTCTTCTCCACGTCGTGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAAC 1412
Db 4039 TCTCAGCACTTTCTTCTCCACGTCGTGTCCAGGTCCTGGGAGAGAGCCATCTCGCCAAAC 4098
QY 1413 AAAGTGGCCCTACTATATCAACACGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATG 1472
Db 4099 AAAGTGGCCCTACTATATCAACACGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATG 4158
QY 1473 ACAGAGCTCTACAGCTCTTTAGTGAACCTGAATAATGTCAAGATCTCAGCTTATAGGACT 1532
Db 4159 ACAGAGCTCTACAGCTCTTTAGTGAACCTGAATAATGTCAAGATCTCAGCTTATAGGACT 4218
QY 1533 GCCATGAAACTCCGAAGACTGCAGAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTCACT 1592
Db 4219 GCCATGAAACTCCGAAGACTGCAGAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTCACT 4278
QY 1593 GCATGTGATGCTTGGACCAAGCAACACTCAAGCAAAATGACACGACCCATGATATCCCTG 1652
Db 4279 GCATGTGATGCTTGGACCAAGCAACACTCAAGCAAAATGACACGACCCATGATATCCCTG 4338
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QY 1833 GCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTT 1892
Db 4519 GCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTT 4578
QY 1893 TGTGACAGCGCAGGCTGGGCTGCTCTGTCATGATTTCTATCCAAATTCGAAGACAGTTG 1952
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QY 1953 GGTGAAGTTGCAATCCTTTGGGGCAGTAAACATTGAGCCCAAGTGTCCGGA 2001
Db 4639 GGTGAAGTTGCAATCCTTTGGGGCAGTAAACATTGAGCCCAAGTGTCCGGA 4687

RESULT 2

US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Voikmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1
; NAME/KEY: unsure

; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60
Query Match 49.6%; Score 991.6; DB 4; Length 13977;
Best Local Similarity 99.5%; Pred. No. 2e-297;
Matches 1005; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
QY 993 ACAGCACAGACCCCTTGAAGACTCCAGAACTTCAAGAGGCCACCGATGAGCTGGACCTC 1052
Db 8993 ATAGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGGCCACCGATGAGCTGGACCTC 9052
QY 1053 AAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCAT 1112
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Db 9113 GACTCTCTCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCGCTCTG 9172
QY 1173 AAAGAGAACGTCGAGCCACGTCATGACCTTGCTCGCAGCTTACCACCTTTGGGCATTCAG 1232
Db 9173 AAAGAGAACGTCGAGCCACGTCATGACCTTGCTCGCAGCTTACCACCTTTGGGCATTCAG 9232
QY 1233 CTCTCACCGTATAAOCCTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAG 1292
Db 9233 CTCTCACCGTATAAOCCTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAG 9292
QY 1293 GTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGACCTTTGGTCCAGCA 1352
Db 9293 GTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGACCTTTGGTCCAGCA 9352
QY 1353 TCTCAGCACTTTCTTCCAGCTCTGTCCAGGGTCCCTTGGGAGAGAGCCATCTCGCCAAAC 1412
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QY 1413 AAAGTGGCCCTACTATATCAACACAGAGACTCAAAACAATGCTGGACCATCCCAAAATG 1472
Db 9413 AAAGTGGCCCTACTATATCAACACAGAGACTCAAAACAATGCTGGACCATCCCAAAATG 9472
QY 1473 ACAGAGCTCTACAGCTCTTTAGCTGACCTGAATAATGTCAGATTTCTCAGCTTATAGGACT 1532
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Db 9593 GCATGTGATGCTTGGACCAAGCAACACTCAAGCAAAATGACCGCCATGGATATCCTG 9652
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QY 1833 GCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTT 1892
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Db 9893 TGTGACAGCGCAGGCTGGGGCCTCCTTCTGTCATGATTTCTATCCAAATTCGAAGACAGTT 9952
QY 1952 GGTGAAGTTGATCCTTTTGGGGCAGTAAACATTGAGCCAAAGTGTCCGGA 2001

Db 9953 GGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAGCCAAGTGTCCGGA 10002

RESULT 3

US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 6001557
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA
; US-08-836-022A-10

Query Match 43.5%; Score 869.8; DB 3; Length 19307;
Best Local Similarity 91.4%; Pred. No. 2e-259;
Matches 922; Conservative 0; Mismatches 87; Indels 0; Gaps 0;
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QY 1293 GTGGCCCTCGAGGACCGAGTCAAGCAGCTGCATGAAGCCCAAGGACCTTGGTCCAGCA 1352
Db 5401 GTGGCTGTGGAGGACCGTGTACAGACAGCTGCATGAAGCCCAAGGACCTTGGTCCAGCA 5342
QY 1353 TCTCAGCACTTTCTTCCACGCTGTGTCCAGGGTCCCTGGGAGAGAGCCCATCTCGCCAAAC 1412
Db 5341 TCCCAGCACTTCTTCCACTTCAAGTTCAGGGTCCCTGGGAGAGAGCCCATCTCACCAAC 5282
QY 1413 AAAGTCCCTACTATATCAACACAGGACTCAAAACAACTTCTGCTGGGACCATCCCAAATG 1472
Db 5281 AAAGTCCCTACTATATCAACACAGGAGACCCAAACAACTTGTGGACACCCCAAAATG 5222
QY 1473 ACAGAGCTCTACAGTCTTTAGTCACTGACCTGAATATGTCAGATTCTCAGCTTATAGGACT 1532
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QY 1533 GCCATGAACCTCCGAGACTGCAGAGGCCCTTTGCTTGGATCTCTTGGATCTCTTGGCTGTCA 1592
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QY 1593 GCATGTGATGCCCTTGACACAGCAACACCTCAAGAAAATGACAGCCCATGGATATCTCTG 1652
Db 5101 GCATGTGATGCCCTTGACACAGCAACACCTCAAGAAAATGACAGCCCATGGATATCTCTG 5042
QY 1653 CAGATTATTAATTGTTGACCACTATTTATGACGCCCTGGAGCAAGAGCACAACAAATTTG 1712
Db 5041 CAGATAATTAAGTGTGACTACATTTATGATCGTCTGCAACTGGCTTCTCAATGTTTATGATAG 4982
QY 1713 GTCAACGTCCTCTCTGGTGGATATGTGTCTGAACTGGCTGCTGAATGTTTATGATAG 1772
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QY 1773 GGACGAACAGGGAGGATCCGCTGCTCTCTTTTAAACTGGCATCATTTCCCTGTGTAA 1832
Db 4921 GGACGAACAGGGAGGATCCGCTGCTCTTTTAAACTGGCATCATTTCTCTGTGTAA 4862
QY 1833 GCACATTTGGAAGACAACTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTT 1892
Db 4861 GCACATTTGGAAGACAACTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTT 4802
QY 1893 TGTGACGAGCGCAGGCTGGGCTCTCTGCTGATGATCTATCCAAATTCACAGACAGTTG 1952
Db 4801 TGTGACGAGCGTAGGCTGGTCTCTCTGCTGATGATCTATCCAAATTCACAGACAGTTG 4742
QY 1953 GGTGAAGTTCATCCTTTGGGGGCGAGTAACATTGAGCCCAAGTGTCCGGA 2001
Db 4741 GGTGAAGTTCATCCTTTGGGGGCGAGTAACATTGAGCCCGAGTGTGAGGA 4693

RESULT 4

US-09-427-048A-10/c
; Sequence 10, Application US/09427048A
; Patent No. 6203975
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; Methods of Use Thereof
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/427,048A
FILING DATE: 21-Oct-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,022
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Bak, Mary E.
REGISTRATION NUMBER: 31,215
REFERENCE/DOCKET NUMBER: GNVN.008PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9200
TELEFAX: 215-540-5818
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 19307 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-427-048A-10

Query Match 43.5%; Score 869.8; DB 3; Length 19307;
Best Local Similarity 91.4%; Pred. No. 2e-259;
Matches 922; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 993 ACAGCACAGACCCCTTGAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTC 1052
DB 5701 ATAGATGAAGCTCTTGAAGACTCCAGGAACCTCAGGAAGCTGCCGATGAACCTGGACCTC 5642

QY 1053 AAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGCATCTCCTCATT 1112
DB 5641 AAGTGGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCAGTGGGGATCTCCTCATT 5582

QY 1113 GACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCATCTGAGGAGAAATTTGGCTCTG 1172
DB 5581 GACTCTCTGCAAGATCACCTTGAAAAGTCAAGGCATCTGGGGAGAAATTTGCACCTCTT 5522

QY 1173 AAAGAGAAGCTGAGCCACGTCGAATGACCTTGCTGCGCAGCTTACCAGTTTGGCATTCAG 1232
DB 5521 AAAGAGAATGTCGAATCGTGTCAATGACCTTGCAATGACCTGACATGACCACTGGGCATTCAG 5462

QY 1233 CTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGCAG 1292
DB 5461 CTCTCACCTTATAACCTCAGCACTTTGGAAGATCTGAATACCAAGATGAGGCTTCTACAG 5402

QY 1293 GTGGCCGTGAGGACCGAGTCAGGCTGTCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAAC 1352
DB 5401 GTGGCTGTGGAGGACCGTGTGAGACAGCTGATGAAGCCACAGGACTTTGGTCTGCA 5342

QY 1353 TCTCAGCACCTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAAC 1412
DB 5341 TCCAGCACCTTCTTTCCACTTCAGTTGAGGGTCCCTGGGAGAGAGCCATCTCAGCAAC 5282

QY 1413 AAAGTGCCTTACTATATCAACCACGAGACTCAAAACAACTTGTGGGACCATCCCAAATG 1472
DB 5281 AAAGTGCCTTACTATATCAACCACGAGACCCAAACAACTTGTGGGACCATCCCAAATG 5222

QY 1473 ACAGAGCTCTACAGCTCTTACAGCTGACCTGAATAATGTCAGATCTCAGCTTATAGACT 1532
DB 5221 ACAGAGCTCTACAGCTCTTACAGCTGACCTGAATAATGTCAGGTTCTCCGCTATAGACT 5162

QY 1533 GCATGAACCTCCGAAGACTGACAGAGGCCCTTTGCTGGATCTCTGAGCCCTGTCAGCT 1592
DB 5161 GCATGAAGCTCAGAAGGCTCCAGAAGGCCCTTTGCTGGATCTCTGAGCCCTGTCAGCT 5102

QY 1593 GCATGTGATGCTTGGACCAAGACACACCTCAAGCAAAATGACCAAGCCCATGGATATCCTG 1652

DB 5101 GCAITGTATGCCCTGGACCAGCACCAACCTCAACCAAAATGACCAGCCCATGATATCCTG 5042

QY 1653 CAGATTATTAATTGTTGACCACTATTATTAGACCCCTGGAGCAAGAGCACAAATTTG 1712
DB 5041 CAGATAATTAACCTGTTGACTACAAATTTATGATCGTCTGGAGCAAGAGCACAAATCTG 4982

QY 1713 GTCACGTCCTCTCTCGTGGATATGTGTCTCAACTGGCTGCTGAATGTTATGATAG 1772
DB 4981 GTCAATGTCCCTCTCTGTGTGGATATGTGTCTCAACTGGCTTCTCAATGTTATGATAG 4922

QY 1773 GGACGAACAGGGAGGATCCGTGTCTCTTTTAAAACTGGCATCATTTCCCTGTGTAAA 1832
DB 4921 GGACGAACAGGGAGGATCCGTGTCTCTTTTAAAACTGGCATCATTTCTCTGTGTAAA 4862

QY 1833 GCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATT 1892
DB 4861 GCACACTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACTGGCTTT 4802

QY 1893 TGTGACCAAGCGCAGGCTGGGCTCTCTTCTGATGATTTTCAAAATTCOAAGACAGTTG 1952
DB 4801 TGTGACCAAGCGTAGGCTGGGCTCTCTTCTGATGATTTTCAAAATTCOAAGACAGTTG 4742

QY 1953 GGTGAAGTTGCATCCTTTGGGGGAGTAAACATGAGCCCAAGTGTCCGGA 2001
DB 4741 GGTGAAGTTGCTTCTTGGGGGAGTAAACATGAGCCGAGTGTTCAGGA 4693

RESULT 5
US-09-091-501B-7
; Sequence 7, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 6045
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(6037)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chimeric
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-7

Query Match 24.5%; Score 490.6; DB 4; Length 6045;
Best Local Similarity 67.6%; Pred. No. 9.7e-142;
Matches 688; Conservative 0; Mismatches 329; Indels 0; Gaps 0;

QY 985 AAAGAGTACAGCACAGACCCCTTGAAGAGCTCCAGGAACCTCAAGAGGCCACGGATGAGC 1044
DB 3783 AAAGCAAGTGGACAGGCTTGGAGAACTCAGAGACCTGGAGGAGCTATGATGACC 3842

QY 1045 TGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAGGGATCTCTGGCAGCCCTGGCGATC 1104

Db 3843 TGGACGCTGACATGAAGGAGGACAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGGAGACT 3902

QY 1105 TCCTCATTTGACTCTCTCAAGATCACTCAAGTCAAGTCAAGGCACTTCGAGGAGAAATTTG 1164

Db 3903 TACTCATTTGACTCGTGCAGGATCAATTTGAAAAAATCAATGATTTAGAGAAGAAATTTG 3962

QY 1165 CGCCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGTCTGCCAGCTTACCACCTTTGG 1224

Db 3963 CACCAATCAACTTTAAAGTTAAAGGTTAAAGGTTAAAGGTTAAAGGTTAAAGGTTAAAGGTT 4022

QY 1225 GCATTCAGCTCTCACCGTATAACCTCAGCAGCTCTGGAAGACTGAACACAGATGGAAGC 1284

Db 4023 ACCTGCATCCCTCTCTAAAGATGCTCTGCCAGCTAGATGACCTTAATATGCGATGGAAC 4082

QY 1285 TTCTGAGGTGGCCGTCGAGGACCGAGTCAGGAGCTGCATGAAGCCACAGGGACTTTG 1344

Db 4083 TTTTACAGGTTTCTGTGGATGATGCGCTTAAACAGCTTCAGGAAGCCACAGAGATTTTG 4142

QY 1345 GTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCCAGGTCCTGGGAGAGAGCCATCT 1404

Db 4143 GACCATCTCTCAGCACTTTCTCTCTACGTACGTACGTCCAGCTGCCGTGGCAAGATCCATT 4202

QY 1405 CGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAACAACTTCTGCTGGACCAATC 1464

Db 4203 CACATAATAAAGTGCCCTATTATACATCAACCAATCAACACAGACACCTGTGGACCAATC 4262

QY 1465 CCAAAATGACAGAGCTCTACCACTTTTACGCTTTAGTCACTGAATATATGTCAGATTTCT 1524

Db 4263 CTAAATGACCGAACTCTTTCAATCCCTTGTGACCTGAATATATGACGTTTCTTGCT 4322

QY 1525 ATAGACTGCCATGAAGAACTCCGAGAGACTGCAGAAAGCCCTTGTGTTGGATCTCTTGAGCC 1584

Db 4323 ACCGTACAGCAATCAAAATCCGAGAGACTACAAAAGCACTATGTTGGATCTCTTAGAST 4382

QY 1585 TGTAGCTGCATGTGATGCCCTTGGACAGCACTCAACACCTCAAGCAAAATGACCAAGCCATGG 1644

Db 4383 TGAGTAAACAAATGAAATTTTCAACAGCACTCAAGTTGAACCAAAATGACCAAGCTCTCA 4442

QY 1645 ATATCTGACAGATTAATTAATTTGTTGACCACTATTTATGACCGCTGGAGCAAGAGCA 1704

Db 4443 GTGTTCCAGATGTCACTCAACTGTCTGACAACTATATGATGAGACTTGAGCAAAATGCATA 4502

QY 1705 ACAATTTGGTCAACGTCCTCTCTGCGTGGATGTGTCTGAACCTGGCTGCTGAATGTTT 1764

Db 4503 AGGACCTGGTCAACGTTCCACTCTGTGTTGATGTGTCTCAATTTGTTGCTCAATGCT 4562

QY 1765 ATGATACGGGACGACAGGAGGATCCGCTGTCTCTTTTAAACTGGCATCTTTCC 1824

Db 4563 ATGACACGGGTGCAACTGGAAATTAAGTGCAGAGCTCTGAAGATTGGATTAATGCTC 4622

QY 1825 TGTGTAAGACACATTTGGAAGACAACTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAA 1884

Db 4623 TCTCCAAGGTCTCTTGAAGAAATAACAGATATCTCTTTAAGGAAGTTGGGGGCCGA 4682

QY 1885 CAGGATTTGTGACCAAGCGAGGTGGGCTCTCTCTGCAATCTCTATCCAAATTCBA 1944

Db 4683 CAGAAATGTGTGACCAAGGCGAGCTGGGCTGTACTTCTATGATGCCATCCAGATCCCC 4742

QY 1945 GACAGTTGGTGAAGTTGCATCCCTTTGGGGGCGAGTAACATTGACCCAAAGTCCGGA 2001

Db 4743 GGCAGCTAGGTGAAGTAGCAGCTTTTGGAGGCGAGTAATATTGAGCCTAGTGTTCGCA 4799

RESULT 6

US-09-091-501B-9

; Sequence 9, Application US/09091501B

; Patent No. 6518413

; GENERAL INFORMATION:

; APPLICANT: Tinsley, Jonathon M

; APPLICANT: Davies, Kay E

; TITLE OF INVENTION: Utrrophin gene expression

; FILE REFERENCE: 620-42

; CURRENT APPLICATION NUMBER: US/09/091,501B

; CURRENT FILING DATE: 1998-06-18

; PRIOR APPLICATION NUMBER: PCT/GB96/03156

; PRIOR FILING DATE: 1996-12-19

; PRIOR APPLICATION NUMBER: GB 9525962.8

; PRIOR FILING DATE: 1995-12-19

; PRIOR APPLICATION NUMBER: GB 9615797.9

; PRIOR FILING DATE: 1996-07-26

; PRIOR APPLICATION NUMBER: GB 9622174.2

; PRIOR FILING DATE: 1996-10-24

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 9

; LENGTH: 10320

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (11)..(10312)

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Full length

; OTHER INFORMATION: utrophin construct

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (724)..(758)

; OTHER INFORMATION: Precise residue is left open

US-09-091-501B-9

Query Match 24.5%; Score 490.6; DB 4; Length 10320;

Best Local Similarity 67.6%; Pred. No. 1.4e-141;

Matches 688; Conservative 0; Mismatches 329; Indels 0; Gaps 0;

QY 985 AAAAGAGTACAGCACAGACCCCTTGAAGACTCCAGGAACTTCAGAGGCCACGATGAGC 1044

Db 8058 AAAAGCAACTGGACAGGCATTTGGAGAACTCAGAGACCTGCAGGGAGCTATGGATGACC 8117

QY 1045 TGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGCGATC 1104

Db 8118 TGGACGCTGACATGAAGGAGGAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGGAGACT 8177

QY 1105 TCCTCATTTGACTCTCTCAAGATCACTCGAGAACTCAAGGCACTTCGAGGAGAAATTTG 1164

Db 8178 TACTCATTTGACTCGCTGCAGGATCAATTTGAAAATCATATGATTTAGAGAGAAATTTG 8237

QY 1165 CGCCTCTGAAAGAGAACGTGAGCCACGTCATACCTTGTCTGCCAGCTTACCACCTTTGG 1224

Db 8238 CACCAATCAACTTTAAAGTTAAACCGTGAATGATTTATCCAGTCACTGTCTCCACTTG 8297

QY 1225 GCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGC 1284

Db 8298 ACCTGCATCCCTCTCTAAAGATGTCTGCCAGCTAGATGACCTTAATATGCGATGGAAC 8357

QY 1285 TTCTGCAGTGGCCGTCGAGGACCGAGTCAGGCACTGATGAAGCCACAGGACTTTTG 1344

Db 8358 TTTTACAGGTTTCTGTGGATGATCGCCTTAAACAGCTTCAAGAGCTTCAGGAAGCCACAGAGATTTTG 8417

QY 1345 GTCCAGCATCTCAGCACTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCT 1404

Db 8418 GACCATCCTCTCAGCACTTTCTCTCTACGTCACTCCAGCTGCCGTGGCAAGATCCATT 8477

QY 1405 CGCCAAACAAAGTGCCTTACTATATCAACACAGAGACTCAAACTTGTGGTGGAGCCATC 1464

Db 8478 CACATAATAAAGTGCCCTATTATCATCAACCATCAACACAGACACCTGTTGGAGCCATC 8537

QY 1465 CCAAAATGACAGAGCTCTACCAGTCTTTAGCTGACCTGAATATGTCAGATTTCTCAGCTT 1524

Db 8538 CTAAATGACCGAACTCTTTCAATCCCTTGTGACCTGAATATGATGCTTTCTGCCT 8597

QY 1525 ATAGGACTGCCATGAAGTCCGAGAGCTGCAGAGAGCCCTTTGCTGGATCTCTTGAGCC 1584

Db 8598 ACCGTACAGCAATCAAAATCCGAGAGACTACAAAAGCACTATGTTGGATCTCTTAGAGT 8657

QY 1585 TGTACAGCTGCATGTGATGCTTTGGACAGCACAACTCAAGCAAAATGACCAAGCCATGG 1644

Db 8658 TGAGTACAAATAAGAAATTTTCAACAGCAGCAAAAGTTGAACCAAAATGACCAGCTCCTCA 8717

QY 1645 ATATCCTGCAGATTATTAAATGTTTGGACCACTATTATGACCGCTGGAGCAAGAGCACA 1704

Db 8718 GTGTTCCAGATGTCATCACTGCTGTGACAACAACATTATGATGGATGTGACAAATGCATA 8777

QY 1705 ACAATTTGGTCAACGTCCTCTCTCGCTGGATATGTGTCTGAACCTGGCTGCTGAATGTTT 1764

Db 8778 AGGACCTGGTCAACGTTCCACTCTGTGTTGATATGTCTCAATTGGTTGCTCAATGTCT 8837

QY 1765 ATGATACGGGACGAACAGGGAGGATCCGCTGCTCTTTTAAACTGGCATATTCCC 1824

Db 8838 ATGACACGGGTCGAACCTGGAATAATTAGAGTCCAGACTCTGAAGATTGGATTATGTCTC 8897

QY 1825 TGTGTAAGCACATTTTGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAA 1884

Db 8898 TCTCCAAAGGTCCTTTGGAAGAAAATACAGATATCTCTTTAAGGAAGTTGCGGGGCCGA 8957

QY 1885 CAGGATTTGTGACACGCGCAGGCTGGGCTCTCTTTCATGATGATCTATCCAAATTCOA 1944

Db 8958 CAGAAATGTGTGACCAAGGAGCTGGGCTGTTACTTCATGATGATCCAGATCCGCC 9017

QY 1945 GACAGTTGGTGAAGTTGCATCCTTTGGGGGCGAGTACATTTGAGCAAGTGTCCGGA 2001

Db 9018 GGCAGCTAGCTGAAGTAGCAGCTTTTGAGGCGCAGTAAATATTGAGCCTAGTGTTCGA 9074

RESULT 7

US-09-091-501B-5

; Sequence 5, Application US/09091501B

; Patent No. 6518413

; GENERAL INFORMATION:

; APPLICANT: Tinsley, Jonathon M

; APPLICANT: Davies, Kay E

; TITLE OF INVENTION: Utrophin gene expression

; FILE REFERENCE: 620-42

; CURRENT APPLICATION NUMBER: US/09/091,501B

; CURRENT FILING DATE: 1998-06-18

; PRIOR APPLICATION NUMBER: PCT/GB96/03156

; PRIOR FILING DATE: 1996-12-19

; PRIOR APPLICATION NUMBER: GB 9525962.8

; PRIOR FILING DATE: 1995-12-19

; PRIOR APPLICATION NUMBER: GB 9615797.9

; PRIOR FILING DATE: 1996-07-26

; PRIOR APPLICATION NUMBER: GB 9622174.2

; PRIOR FILING DATE: 1996-10-24

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 5

; LENGTH: 200

; TYPE: DNA

; ORGANISM: Rattus sp.

US-09-091-501B-5

Query Match 4.0%; Score 79.4; DB 4; Length 200;

Best Local Similarity 64.3%; Pred. No. 9e-15;

Matches 119; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

QY 464 CCTAAACGCCAAGTACAAACATAAAGTGTCTTCAAGAGATCTAGAACAAGACAAGT 523

Db 16 CCTGCAAAACCTGCTTGAAACATAAAAGTTTGCAAAAGTACCTCGAAGCTGAGCAGGT 75

QY 524 CAGGTCATATCTCTCACTACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGC 583

Db 76 GAAGGTGAATTCCTTAACATCATATGTTGGTGGTATTGTGGATGAAACAGTGGGAGAGCGC 135

QY 584 AACTGCTGCTTTGGAAGACAACACTTAAGCTATTGGGAGATCGATGGCAAAACATCTGTAG 643

Db 136 CACAGCTGTTTGGGAAGATCAGTTACAGAAACTGGGTGAGCGCTGGACAGCTGTATCCG 195

QY 644 ATGGA 648

Db 196 CTGGA 200

RESULT 8

US-09-091-501B-4

; Sequence 4, Application US/09091501B

; Patent No. 6518413

; GENERAL INFORMATION:

; APPLICANT: Tinsley, Jonathon M

; APPLICANT: Davies, Kay E

; TITLE OF INVENTION: Utrophin gene expression

; FILE REFERENCE: 620-42

; CURRENT APPLICATION NUMBER: US/09/091,501B

; CURRENT FILING DATE: 1998-06-18

; PRIOR APPLICATION NUMBER: PCT/GB96/03156

; PRIOR FILING DATE: 1996-12-19

; PRIOR APPLICATION NUMBER: GB 9525962.8

; PRIOR FILING DATE: 1995-12-19

; PRIOR APPLICATION NUMBER: GB 9615797.9

; PRIOR FILING DATE: 1996-07-26

; PRIOR APPLICATION NUMBER: GB 9622174.2

; PRIOR FILING DATE: 1996-10-24

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 4

; LENGTH: 200

; TYPE: DNA

; ORGANISM: Mus sp.

US-09-091-501B-4

Query Match 3.9%; Score 78.6; DB 4; Length 200;

Best Local Similarity 62.4%; Pred. No. 1.6e-14;

Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 452 TGATCTTGAAGACCTAAACGCCCAAGTACAAACATAGTCAAGTGTCTTCAAGAGATCTAGA 511

Db 4 TGACCTGCCCTCCCTGCAGAGCTGCTTCAAGAACATATAAAAGTTGCAAAATGACCTTGA 63

QY 512 ACAGAACAAAGTCAGGTCATTTCTCTCACTCAATGTTGGTGGTAGTTGATGAATCTAG 571

Db 64 AGCTGACAGGTGAAGTAAATTCCTTAACACTCAATGTTGGTGGTAAACAG 123

QY 572 TGGAGATCACGCACTGCTGTTTGGGAAGAACACTTAAGGTATTGGGAGATCGATGGGC 631

Db 124 TGGGAGAGTGGCCACAGCTCTTCTGGAAGATCAGTTACAGAAACTGGGTGAGCGCTGGAC 183

QY 632 AAACATCTGTAGATGA 648

Db 184 AGCTGTATGCCGCTGGA 200

RESULT 9

US-09-091-501B-6

; Sequence 6, Application US/09091501B

; Patent No. 6518413

; GENERAL INFORMATION:

; APPLICANT: Tinsley, Jonathon M

; APPLICANT: Davies, Kay E

; TITLE OF INVENTION: Utrophin gene expression

; FILE REFERENCE: 620-42

; CURRENT APPLICATION NUMBER: US/09/091,501B

; CURRENT FILING DATE: 1998-06-18

; PRIOR APPLICATION NUMBER: PCT/GB96/03156

; PRIOR FILING DATE: 1996-12-19

; PRIOR APPLICATION NUMBER: GB 9525962.8

; PRIOR FILING DATE: 1995-12-19

; PRIOR APPLICATION NUMBER: GB 9615797.9

; PRIOR FILING DATE: 1996-07-26

; PRIOR APPLICATION NUMBER: GB 9622174.2

; PRIOR FILING DATE: 1996-10-24

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 200

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/ ; TYPE: DNA
/ ; ORGANISM: Homo sapiens
US-09-091-501B-6

Query Match      3.9%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 1.6e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 452 TGATCTGAAGACCTAAACGCCCAAGTACAAACACATAAGGTGCTTCAAGAAAGATCTAGA 511
    ||||| || ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Db 4 TGATGTGAATCTCTACAAAGCTGCTAGAAAGACATAAAAGTTTGCAAGATGATCTTGA 63

QY 512 ACAAGACAAGTCAGGGTCAATTCTCTCACTCACTGCTGGTGGTGGTAGTTGATGAATCTAG 571
    ||||| || || ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||
Db 64 GGCTGAACAGGTGAAGTAAATTCACATACTCACTAAGTGGTGGTCAATTGTTGATGAAAACAG 123

QY 572 TGGAGATCACCGCACTGCTGCTTTTGAAGAACAACTTAAGGTATTGGGAGATCGATGGGC 631
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Db 124 TGGTGAGAGCGCTACAGCTATCCTAGAAGACCAGTTACAGAAACTTGGTGAGCGCTGGAC 183

QY 632 AAACATCTGTAGATGGA 648
    | ||| | ||||
Db 184 AGCAGTATGCCGTTTGA 200
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RESULT 10
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZgpt-Fls
US-08-232-463-14
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Query Match      3.7%; Score 74.6; DB 1; Length 7218;
Best Local Similarity 5.6%; Pred. No. 3.4e-12;
Matches 23; Conservative 236; Mismatches 150; Indels 0; Gaps 0;

QY 113 TTTCTAATGATGTGGAAGTGGTGAAGACCCAGTTCTATCTACTATCTATGAGGGGTACATGATGG 172
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Db 1474 TATCTATGCAAGTAGTTAAAGAGATAGAAGAAATTGGTACRRRRRRRRRRRRRRRRR 1415

QY 173 ATTGACAGCCCATCAGGCGCGGTGGTAAATATTTCTACAAATTTGGGAAAGTAACTGATG 232
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1414 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1355

QY 233 GAACAGGAAAATTATCAGAAGATGAAGAAACTGAAGTACAAGACAGATGAATCTCCTAA 292
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1354 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1295

QY 293 ATTCAAGATGGGAATCCCTCAGGCTAGCTAGCATGGAAGAAACAAAGCAATTTACATAGAG 352
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1294 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1235

QY 353 TTTTAATGGATCTCCAGAAATCGAACTGAAAGAGTGAATGACTGGCTAACAAAAACAGA 412
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1234 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1175

QY 413 AGAAAGACAAGGAAAATGGAGGAAGACCCCTCTTGGACCTGATCTTGAAGACCTAAACG 472
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1174 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1115

QY 473 CCAAGTACAACAACATAGGTGCTTCAAGAGAGATCTAGAACAAAGACAA 521
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1114 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1066
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RESULT 11
US-09-668-313A-10
; Sequence 10, Application US/09668313A
; Patent No. 6503756
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Susan M. Freier
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF SYNTAXIN 4 INTERACTING PROTEIN EXPRES
; FILE REFERENCE: RTS-0127
; CURRENT APPLICATION NUMBER: US/09/668,313A
; CURRENT FILING DATE: 2000-09-22
; NUMBER OF SEQ ID NOS: 247
; SEQ ID NO 10
; LENGTH: 2574
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (218)...(1891)
US-09-668-313A-10

Query Match      2.2%; Score 44.2; DB 4; Length 2574;
Best Local Similarity 54.7%; Pred. No. 0.0048;
Matches 88; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1389 TGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAAAACA 1448
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Db 1733 TGGGAGGAAGCTTACACAGCAGATGGAATCAAGTACTTCATCAACCCAGCTGACACAGACC 1792

QY 1449 ACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTTAGTGCACCTGAATAAT 1508
    || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Db 1793 ACCTCCTGGATCCACCCCGCTGATGAGCGCCCTGAACCTGTCTGTGACAGGAGAGTGAA 1852

QY 1509 GTCAGATTCTCAGCTTATAGACTGCCATGAAACTCCGAAG 1549
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1853 GAGGACTGTCCAGAGAGCTAACACAGACCCGAAAGCTGATG 1893
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RESULT 12

US-09-107-532A-1186
; Sequence 1186, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinllo, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 1186:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1179 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...1179
; SEQUENCE DESCRIPTION: SEQ ID NO: 1186:
US-09-107-532A-1186

Query Match 2.1%; Score 42.8; DB 4; Length 1179;
Best Local Similarity 49.5%; Pred. No. 0.0076;
Matches 110; Conservative 0; Mismatches 112; Indels 0; Gaps 0;
QY 353 TTTTAAATGGATCTCCAGAAATCGAAACTGAAGAGATTGAATGACTGGCTAACAAAAACAGA 412
Db 585 TGTTCATCCAGCAGTTGAGCAAGAATAAAAGATTGTATCATCAGACAAAGAAAATGG 644
QY 413 AGAAGAACAAAGGAAAATGGAGGAAGAGCCCTCTGGACCTGATCTTGAAGACCTAAACG 472
Db 645 AGATACCATCGGAGGAATTGTAGAAGTGTCTGTTGGAGGCGTCCAGCTGGATTAGGAAG 704
QY 473 CCAAGTACAACATAGAAGTGTCTCAAGAAAGATCTAGAACAAAGAACAAAGTCAAGGTCAA 532
Db 705 CTACGTACAATGGACACGAAGCTAGATGCCAAAATCGCAAAAGCTGTGTTAGTATCAA 764
QY 533 TTCTCTCACTACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 574
Db 765 TGCCTTAAAGGCGTAGAATTGGGGTGGGATTCACTTCTGG 806

RESULT 13

US-09-620-312D-69
; Sequence 69, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunding
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 69
; LENGTH: 1690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (128)..(1522)
US-09-620-312D-69

Query Match 2.1%; Score 42.8; DB 4; Length 1690;
Best Local Similarity 47.9%; Pred. No. 0.0097;
Matches 156; Conservative 0; Mismatches 167; Indels 3; Gaps 1;
QY 1016 CCAGGAACCTCAAGAGGCGCACGGATGAGCTGACCTCAAGCTGCGCCAAGCTGAGGTGAT 1075
Db 55 CAAGGAGTTGCACCAGGTGGCGCACGACCTGGACGACGAGCTGGCATGGGTTCCAGGAGCG 114
QY 1076 CAAGGGA---TCCTGGCAGCCCGTGGCGGATCTCCTCATTGACTCTCTCCAGATCACCT 1132
Db 115 GCTGCCACTGGCCATGCAGACAGAGCGGCAACCGTTTGCAGGCGGTCCAGACACAT 174
QY 1133 CGAGAAAGTCAAGGCACCTCGAGGAGAAATTTGGCCTCTGAAAGAGAACGTGAGCCACGT 1192
Db 175 CAAAAGAACACAGGCGCTGCGCGGGGAGATCCAGGCGCATGGGCGCGCTGGAGGAGGT 234
QY 1193 CAATGACCTTGCTCGCCAGCTTACCACTTTGGGATTCAGCTCTACCGTATACCTCAG 1252
Db 235 GCTGGAGCGCGGGCGCTGGCGTGGCTGCGACCCGAGGAGGAGGAGTGGCGCG 294
QY 1253 CACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCGCTCGAGACCGAGT 1312
Db 295 GGGCCTGAGCAGCTGCAGAGCGCCTGGCGGAGGCTGGGAGGCTGCCGAGGAGCGGCA 354
QY 1313 CAGGCAGCTGCATGAAGCCACAGGG 1338
Db 355 GCAGGTGCTGGACCGCGCTTCCAGG 380

RESULT 14

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1678620 seqs, 1244745471 residues

Total number of hits satisfying chosen parameters: 3357240

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*

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16:	/cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
17:	/cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	2001	100.0	3446	12	US-09-845-416-14
2	1990	99.5	4414	12	US-09-845-416-32
3	1593	79.6	3510	12	US-09-845-416-12
4	1593	79.6	4476	12	US-09-845-416-31
5	1263	63.1	3858	12	US-09-845-416-9
6	1263	63.1	4825	12	US-09-845-416-29
7	1263	63.1	4848	12	US-09-845-416-35
8	1263	63.1	5060	12	US-09-845-416-36
9	1251.2	62.5	3531	12	US-09-845-416-10
10	1251.2	62.5	4498	12	US-09-845-416-30
11	1245	62.2	4182	12	US-09-845-416-2
12	1245	62.2	5149	12	US-09-845-416-27
13	1112	55.6	3999	12	US-09-845-416-6
14	1112	55.6	4966	12	US-09-845-416-28
15	1112	55.6	4990	12	US-09-845-416-34
16	1002.6	50.1	1821	12	US-09-845-416-13

17	1002.6	50.1	2169	12	US-09-845-416-4	Sequence 4, Appli
18	1002.6	50.1	11058	12	US-09-845-416-1	Sequence 1, Appli
19	1002.6	50.1	13957	10	US-09-782-378A-22	Sequence 22, Appl
20	1002.6	50.1	13957	10	US-09-880-107-2284	Sequence 2284, Ap
21	1001	50.0	1434	12	US-09-845-416-15	Sequence 15, Appl
22	985.8	49.3	1991	12	US-09-845-416-3	Sequence 3, Appli
23	665	33.2	1667	12	US-09-845-416-7	Sequence 7, Appli
24	490.6	24.5	10302	10	US-09-782-378A-23	Sequence 23, Appl
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26	350	17.5	1340	12	US-09-845-416-11	Sequence 11, Appl
27	180	9.0	476	9	US-09-864-761-15766	Sequence 15766, A
28	160.2	8.0	256	9	US-09-864-761-21956	Sequence 21956, A
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32	122	6.1	122	9	US-09-864-761-32272	Sequence 32272, A
33	83.6	4.2	517	13	US-10-027-632-88865	Sequence 88865, A
34	54.2	2.7	449	11	US-09-918-995-24084	Sequence 24084, A
35	54.2	2.7	2247	10	US-09-960-253-157	Sequence 157, App
36	49.6	2.5	592	13	US-10-027-632-304596	Sequence 304596,
37	45.2	2.3	423	9	US-09-864-761-18355	Sequence 18355, A
C 38	44.6	2.2	8895	9	US-09-764-853-887	Sequence 887, App
C 39	44.6	2.2	8895	9	US-09-764-853-937	Sequence 937, App
C 40	44.6	2.2	8895	14	US-10-091-438-250	Sequence 250, App
C 41	44.6	2.2	8895	14	US-10-091-438-256	Sequence 256, App
C 42	44.6	2.2	9656	9	US-09-764-853-886	Sequence 886, App
C 43	44.6	2.2	9656	9	US-09-764-853-933	Sequence 933, App
C 44	44.6	2.2	9656	14	US-10-091-438-246	Sequence 246, App
C 45	44.6	2.2	9656	14	US-10-091-438-255	Sequence 255, App

ALIGNMENTS

RESULT 1
US-09-845-416-14
; Sequence 14, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 14
; LENGTH: 3446
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-14

Query Match	100.0%;	Score	2001;	DB	12;	Length	3446;
Best Local Similarity	100.0%;	Pred. No.	0;				
Matches	2001;	Conservative	0;	Mismatches	0;	Indels	0;
QY	1	GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACAGAGCTTTAGAAGAA	60				
Db	1000	GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACAGAGCTTTAGAAGAA	1059				
QY	61	GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACACAGGAGAGATTCTAAT	120				
Db	1060	GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACACAGGAGAGATTCTAAT	1119				
QY	121	GATGTGGAAGTGGTGAAGACCACTTTCTACTACTCATGAGGGGTACATGATGGATTGACA	180				
Db	1120	GATGTGGAAGTGGTGAAGACCACTTTCTACTACTCATGAGGGGTACATGATGGATTGACA	1179				
QY	181	GCCATCAGGCCGGGTTGGTAAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGA	240				

Db 1180 GCCCATCAGGGCCGGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATGGAAACAGGA 1239

QY 241 AAATTATCAGAGATGAAGAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGA 300

Db 1240 AAATTATCAGAGATGAAGAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGA 1299

QY 301 TGGGAATGCCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG 360

Db 1300 TGGGAATGCCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG 1359

QY 361 GATCTCCAGAATCGAAACTGAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAGAA 420

Db 1360 GATCTCCAGAATCGAAACTGAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAGAA 1419

QY 421 CAAGGAAATGGAGGAAGCCCTTTGGACCTGATCTTGAAGACCTAAACGCCCAAGTAC 480

Db 1420 CAAGGAAATGGAGGAAGCCCTTTGGACCTGATCTTGAAGACCTAAACGCCCAAGTAC 1479

QY 481 AACACATAAGGTGCTTCAAGAAGATCTAGAACAGAACAAGTCAGGGTCAATTCTCTCA 540

Db 1480 AACACATAAGGTGCTTCAAGAAGATCTAGAACAGAACAAGTCAGGGTCAATTCTCTCA 1539

QY 541 CTCACATGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTTGGGAAG 600

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Db 1660 GGGTCTTTTACAAGACATCCTTCTCAAAATGGCAACGCTTACTGAAGAACAGTGCCTTT 1719

QY 721 TTAGTGATGGCTTTTACAAAAAAGAGATGCAGTGAACAAGATTCACACAACTGGCTTTA 780

Db 1720 TTAGTGATGGCTTTTACAAAAAAGAGATGCAGTGAACAAGATTCACACAACTGGCTTTA 1779

QY 781 AAGATCAAAATGAAATGTTATCAAGTCTTCAAAACTGGCCGTTTAAAGCGGATCTAG 840

Db 1780 AAGATCAAAATGAAATGTTATCAAGTCTTCAAAACTGGCCGTTTAAAGCGGATCTAG 1839

QY 841 AAAAGAAAAGCAATCCATGGGCAAACTGTATTCTACTCAAAACAGATCTTCTTTCAACAC 900

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QY 1141 TCAAGGCACCTCGAGGAGAAATTCGCTCTGAAAGAGAACGCTGAGCCACGTCATGACC 1200

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Db 2260 AAGACCTGAACACACAGATGGAAGCTTCTGCAGGTGGCCGCTGAGACCCGAGTCAGGCAGC 2319

QY 1321 TGCATGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGACATTTCTTTCCACGCTCTGTCC 1380

Db 2320 TGCATGAAGCCCAACAGGGACTTTGGTCCAGCATCTCAGACATTTCTTTCCACGCTCTGTCC 2379

QY 1381 AGGTTCCCTGGGAGAGAGCCATCTCGCCCAAAACAAAGTGCCCTACTATATCAACCCAGAGA 1440

Db 2380 AGGTTCCCTGGGAGAGAGCCATCTCGCCCAAAACAAAGTGCCCTACTATATCAACCCAGAGA 2439

QY 1441 CTCAACAACACTTGTCTGGGACCATCCCAAAAATGACAGAGCTCTACCACTTTAGCTGACC 1500

Db 2440 CTCAACAACACTTGTCTGGGACCATCCCAAAAATGACAGAGCTCTACCACTTTAGCTGACC 2499

QY 1501 TGAATAATGTCAGATCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAGG 1560

Db 2500 TGAATAATGTCAGATCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAGG 2559

QY 1561 CCCTTTGCTTGGATCTCTTGAGCCTGTGAGCTGTGATGGCTTGGACGACACAACC 1620

Db 2560 CCCTTTGCTTGGATCTCTTGAGCCTGTGAGCTGTGATGGCTTGGACGACACAACC 2619

QY 1621 TCAAGCAAAATGACCCCATGGATATCTCTGAGATTAATTTGTTGACCACTATTT 1680

Db 2620 TCAAGCAAAATGACCCCATGGATATCTCTGAGATTAATTTGTTGACCACTATTT 2679

QY 1681 ATGACCGCTGGAGCAAGAGACACAATTTGGTCAACGTCCTCTCTGCTGGGATATGT 1740

Db 2680 ATGACCGCTGGAGCAAGAGACACAATTTGGTCAACGTCCTCTCTGCTGGGATATGT 2739

QY 1741 GTCTGAACCTGGCTGCTGAATGTTTATGATACGGGAGCAACAGGAGGATCCGTCTCTGT 1800

Db 2740 GTCTGAACCTGGCTGCTGAATGTTTATGATACGGGAGCAACAGGAGGATCCGTCTCTGT 2799

QY 1801 CTTTAAACTGGCATCATTTCCCTGTGTAAGCAACATTTGGAGACAAGTACAGATACC 1860

Db 2800 CTTTAAACTGGCATCATTTCCCTGTGTAAGCAACATTTGGAGACAAGTACAGATACC 2859

QY 1861 TTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGGAGGCTGGGCTCCTTC 1920

Db 2860 TTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGGAGGCTGGGCTCCTTC 2919

QY 1921 TGCATGATTTCTATCCAAATCCAGACAGTGGTGGTCAAGTTGCATCCTTTGGGGGCAGTA 1980

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QY 1981 ACATTGAGCCAAAGTGTCCGGA 2001

Db 2980 ACATTGAGCCAAAGTGTCCGGA 3000

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US-09-845-416-32

; Sequence 32, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF

; FILE REFERENCE: DEL142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 32

; LENGTH: 4414

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-32

Query Match 99.5%; Score 1990; DB 12; Length 4414;

Best Local Similarity 100.0%; Pred. No. 0;


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; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-12

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Best Local Similarity 87.7%; Pred. No. 0;
Matches 1811; Conservative 0; Mismatches 190; Indels 64; Gaps 4;

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QY      61  GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCCTAAT 120
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QY      301  TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATG 360
Db      1300 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATG 1359

QY      361  GATCTCCAGAAATC-GAAACTGAAAGAGTTGAATGACTGGCTGAAGACCTAAAAACGCCAAGTA 419
Db      1360 GATCTCCAGAAATCAGAAACTGAAAGAGTTGAATGACTGGCTGAAGACCTAAAAACGAGAAAGA 1419

QY      420  ACAAGGAAAAATGGAGGAAGAGCCTCTTGGACCTGATCTTGAAGACCTAAAAACGCCAAGTA 479
Db      1420 ACAAGGAAAAATGGAGGAAGAGCCTCTTGGACCTGATCTTGAAGACCTAAAAACGCCAAGTA 1479

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QY      540  ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCAGGCAACTGCTGCTTTGGAA 599
Db      1540 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCAGGCAACTGCTGCTTTGGAA 1599

QY      600  GAACAACCTTAAGGTATTGGGAGATCGATGGCCAAACATCTGTAGATGGACAGAGACCGC 659
Db      1600 GAACAACCTTAAGGTATTGGGAGATCGATGGCCAAACATCTGTAGATGGACAGAGACCGC 1659

QY      660  TGGGTCTTTTACAAGACATCTCTCAATGGCAACGCTTACTGAACAACAGTGCCTT 719
Db      1660 TGGGTCTTTTACAAGACATCTCTGACCAGTGGGAAGCGTCTGCACCTTTCTCTGCAGGAA 1719

QY      720  TTTAGTGCATGGCTTTCAGAAAAAGAGATGAGTGAACAAGATTTCACAACAAGTGGCTTT 779
Db      1720 CTTCCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGC 1779

QY      780  AAAGATCAAAATGAAATGTTATCAAGTCTTCAAAAACCTGGCCGTTTTTAAAGCGGATCTA 839
Db      1780 GACTTTCAGCAGCTCAGAAAGCAGAACCGATATACATAGGSCCTTCAAGAGGGGAATTGAAA 1839
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QY      840  GAAAAGAAAAAGCAATCCATGGGCAAACTGTA-----TTCACTCAAAACAAG 885
Db      1840 ACTAAGAAACCTGTAAATCATGAGTACTTTGAGACTGTACGAATATTTCTGACAGAGCAG 1899

QY      886  ATCTTCTTTCAACACTGAAGAATAAAGTCAGTACCCAGAGAAGAGCAATGCTGGA-- 943
Db      1900 CCTTTGGAAGGACTAGAGAAAACTCTACCAAGGAGGCCAGAGAGCTCCTCCTGAGGAGAGA 1959

QY      944  -----TAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAA 978
Db      1960 GCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGAA 2019

QY      979  AACTTGAA-----AAGAGTACAGACACACACCCCTTGAAAAGACTC 1016
Db      2020 AAATTGAACCTGCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAAGACTC 2079

QY      1017  CAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATC 1076
Db      2080 CAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATC 2139

QY      1077  AAGGGATCCTGGCAGGCCGCTGGGGAATCTCCTCATTGACTCTCTCCAAGATCACCTCGAG 1136
Db      2140 AAGGGATCCTGGCAGGCCGCTGGGGAATCTCCTCATTGACTCTCTCCAAGATCACCTCGAG 2199

QY      1137  AAAGTCAAGGCACCTTCAGGAGAGAAATGCGCCTCTGAAAAGAGACGTGAGCCAGCTCAAT 1196
Db      2200 AAAGTCAAGGCACCTTCAGGAGAGAAATGCGCCTCTGAAAAGAGACGTGAGCCAGCTCAAT 2259

QY      1197  GACCTTGCTGCCAGCTTACACACTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACT 1256
Db      2260 GACCTTGCTGCCAGCTTACCACTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACT 2319

QY      1257  CTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCGCTGAGGAGCCGAGTCAGG 1316
Db      2320 CTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCGCTGAGGAGCCGAGTCAGG 2379

QY      1317  CAGCTGCATGAAGCCCCACAGGGACTTTGGTCCAGCATCTTCAGCACTTTCTTTCCACGCT 1376
Db      2380 CAGCTGCATGAAGCCCCACAGGGACTTTGGTCCAGCATCTTCAGCACTTTCTTTCCACGCT 2439

QY      1377  GTCCAGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATAICAACAC 1436
Db      2440 GTCCAGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATAICAACAC 2499

QY      1437  GAGACTCAAAACAACCTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTAGCT 1496
Db      2500 GAGACTCAAAACAACCTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACCAGTCTTAGCT 2559

QY      1497  GACCTGAATAATGTCAAGATTCTCAGTTATAGGATGAGCTGCCATGAACTCCGAAAGACTGCAG 1556
Db      2560 GACCTGAATAATGTCAAGATTCTCAGTTATAGGATGAGCTGCCATGAACTCCGAAAGACTGCAG 2619

QY      1557  AAGGCCCTTTGCTTGGATCTCTTGAGCCTGTGAGTGCATGTGATGCCCTTGACCAGCAC 1616
Db      2620 AAGGCCCTTTGCTTGGATCTCTTGAGCCTGTGAGTGCATGTGATGCCCTTGACCAGCAC 2679

QY      1617  AACCTCAAGCAAAATGACAGCCCATGGATATCCTGCAGATTATTAATTTGTTGACCAC 1676
Db      2680 AACCTCAAGCAAAATGACAGCCCATGGATATCCTGCAGATTATTAATTTGTTGACCAC 2739

QY      1677  ATTTATGACCGCCTGGAGCAAGAGCACAAACAATTTGGTCAACGTCCTCTCTGCGTGGAT 1736
Db      2740 ATTTATGACCGCCTGGAGCAAGAGCACAAACAATTTGGTCAACGTCCTCTCTGCGTGGAT 2799

QY      1737  ATGTGCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGACAGGGAGGATCCGTGTC 1796
Db      2800 ATGTGCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGACAGGGAGGATCCGTGTC 2859

QY      1797  CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGATACAGA 1856
Db      2860 CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGATACAGA 2919
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QY	1557	AAGCCCTTTGCTTGGATCTCTTGAGCCCTGTTCAGCTGCATGTGATGCCTTGGACCAAGCAC	1611
Db	3376	AAGCCCTTTGCTTGGATCTCTTGAGCCCTGTTCAGCTGCATGTGATGCCTTGGACCAAGCAC	3435
QY	1617	AACCTCAAGCAAAATGACAGCCCATGGATATCCTGCAGATTATTAATTGTTTGACCACT	1676
Db	3436	AACCTCAAGCAAAATGACAGCCCATGGATATCCTGCAGATTATTAATTGTTTGACCACT	3495
QY	1677	ATTTATGACCGCCTGGAGCAAGAGCACACAATTTGGTCAACGTCCCTCTCTGCGTGGAT	1736
Db	3496	ATTTATGACCGCCTGGAGCAAGAGCACACAATTTGGTCAACGTCCCTCTCTGCGTGGAT	3555
QY	1737	ATGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGTC	1796
Db	3556	ATGTGCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGTC	3615
QY	1797	CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGA	1856
Db	3616	CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGA	3675
QY	1857	TACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCAAGCGGAGGCTTGGGCCTC	1916
Db	3676	TACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCAAGCGGAGGCTTGGGCCTC	3735
QY	1917	CTTCTGCATGATTTCTATCCAAAATTCACAGACAGTTGGGTGAAGTTGCATCCTTTTGGGGGC	1976
Db	3736	CTTCTGCATGATTTCTATCCAAAATTCACAGACAGTTGGGTGAAGTTGCATCCTTTTGGGGGC	3795
QY	1977	AGTAACATTGAGCCCAAGTGTCCCGGA	2001
Db	3796	AGTAACATTGAGCCCAAGTGTCCCGGA	3820

RESULT 5

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US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

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	Query Match	63.1%;	Score 1263;	DB 12;	Length 3858;
	Best Local Similarity	75.3%;	Pred. NO. 0;		
	Matches 1816;	Conservative	0;	Mismatches 185;	Indels 412; Gaps 3;
QY	1	GGCAGTTCATTGATGGAGACTGAAGTAACCTGGACCCTATCAAAACAGCTTTAGAAGAA	60		
Dd	1000	GGCAGTTCATTGATGGAGACTGAAGTAACCTGGACCCTATCAAAACAGCTTTAGAAGAA	1059		
QY	61	GTATTATCGTGCGCTTCTTTCTGCTGAGGACACATTGCCAAGCACAAAGGAGAGATTTCCTAAT	120		
Dd	1060	GTATTATCGTGCGCTTCTTTCTGCTGAGGACACATTGCCAAGCACAAAGGAGAGATTTCCTAAT	1119		
QY	121	CATGTGGAAGTGGTGAAAGACCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACA	180		
Dd	1120	GATGTGGAAGTGGTGAAAGACCAGTTTCATACTCATGAGGGGTACATGATGGATTTGACA	1179		
QY	181	CCCCATCAGGCCCGGGTTGGTAATAATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGA	240		
Dd	1180	CCCCATCAGGCCCGGGTTGGTAATAATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGA	1239		

QY	241	AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGA	300
Db	1240	AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAGA	1299
QY	301	TGGGAATGCCTCAGGTTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG	360
Db	1300	TGGGAATGCCTCAGGTTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG	1359
QY	361	GATCTCCAGAATC-GAAACTGAAAGAGTTGAATGACTGGCTAAACAAAACAGAAGAAAGA	419
Db	1360	GATCTCCAGAATCAGAAACTGAAAGAGTTGAATGACTGGCTAAACAAAACAGAAGAAAGA	1419
QY	420	ACAAGGAAATGGAGGAGAGCCTCTTTGACCTGATCTTGAAGACCTTAAACACGCCAACTA	479
Db	1420	ACAAGGAAATGGAGGAGAGCCTCTTTGACCTGATCTTGAAGACCTTAAACACGCCAACTA	1479
QY	480	CAACAACATAAGGTGCTTCAAGAAGATCTAGAACACAAGACAAGTCAAGGTCAATTTCTCTC	539
Db	1480	CAACAACATAAGGTGCTTCAAGAAGATCTAGAACACAAGACAAGTCAAGGTCAATTTCTCTC	1539
QY	540	ACTCACATGGTGGTGGTACTTGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA	599
Db	1540	ACTCACATGGTGGTGGTACTTGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA	1599
QY	600	GAACAACCTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGC	659
Db	1600	GAACAACCTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGC	1659
QY	660	TGGGTTCTTTTACAAGACATCCCTTCTCAAAATGGCAACGCTTACTGAAAGAACAGTGCCTT	719
Db	1660	TGGGTTCTTTTACAAGACATCATAGATTACTGCAACAGTTCCCTCGACCTGGAAAG	1719
QY	720	TTTAGTGCATGGCTTTCAGAAAAAGAGATGCAGTGAACAAGATTACACACAACGTGGCTTT	779
Db	1720	TTTCTTGCTGGCTTACAGAAGCTGAACAACACTGCCAATGTCTTACAGATGTACCGT	1779
QY	780	A-----AAGATCAAAATGAAATGTTATCAAGTCTTCAAAAACCTGGCCCTT	824
Db	1780	AAGGAAAGGCTCCTAGAAGACTCCAAGGAGTAAAGAGTGTATGAAACAATGGCAAGAC	1839
QY	825	TTAAAAGCGGATCTAGAAAGAAAAAGCAATCCATGGGCAAACTGTATTCACTCAAACAA	884
Db	1840	CTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAACACAGCCAA	1899
QY	885	GATCTTCTTCAACACTGAAGAATAAGTCAGTGACCCAGAAGACGGAAGCATGGCTGGAT	944
Db	1900	AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTGTTACAAAGACGTTTGGAT	1959
QY	945	AACCTTTCGCCGGTGTGGGATAAATTTAGTCCAAAAAACHTGAAGAGTACAGCAC-----	999
Db	1960	AACATGAACHTCAAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTTG	2019
QY	1000	-----	999
Db	2020	GAAAGCCAGTCTGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGG	2079
QY	1000	-----	999
Db	2080	CTACAGCTGAAAGATGATGAATTAAAGCCGAGCAGCCTTATGGAGGCGACTTTCCAGCA	2139
QY	1000	-----	999
Db	2140	GTTCAGAACGAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACCT	2199
QY	1000	-----	999
Db	2200	GTAATCATGAGTACTCTTGACACTGTACGAATATTTCTGCACAGAGCAGCCTTTGGGAAGGA	2259
QY	1000	-----	999
Db	2260	CTAGAGAAACTCTACCAGAGGCCACAGAGAGTGCCTCCTGAGGAGAGAGACCCAGAAATGTC	2319

QY 1000 ----- 999

Db 2320 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTGAACCTG 2379

QY 1000 -----AGACCCCTTGAAGACTCCAGGAACCTCAA 1028

Db 2380 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCAA 2439

QY 1029 GAGGCCACGGATCAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGG 1088

Db 2440 GAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGG 2499

QY 1089 CAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCTCAAGATCACCTCGAGAAAGTCAAGGCA 1148

Db 2500 CAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCTCAAGATCACCTCGAGAAAGTCAAGGCA 2559

QY 1149 CTTGAGGAGAAATTGCGCCTTGAAGAGAACGTCAGCCACGTCATGACCTTGTCTCGC 1208

Db 2560 CTTGAGGAGAAATTGCGCCTTGAAGAGAACGTCAGCCACGTCATGACCTTGTCTCGC 2619

QY 1209 CAGCTTACCATTGGGCAATTCAGCTCTACCCGTATAAAGTCAAGTCAAGTCAAGGCAAGCTG 1268

Db 2620 CAGCTTACCATTGGGCAATTCAGCTCTACCCGTATAAAGTCAAGTCAAGTCAAGGCAAGCTG 2679

QY 1269 AACACACAGATGGAAGCTTCTGACAGGTGGCGTCGAGGACCGAGTCAGGACGCTGCATGAA 1328

Db 2680 AACACACAGATGGAAGCTTCTGACAGGTGGCGTCGAGGACCGAGTCAGGACGCTGCATGAA 2739

QY 1329 GCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTGTCTCCAGGTCCTC 1388

Db 2740 GCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTGTCTCCAGGTCCTC 2799

QY 1389 TGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACACGAGACTCAAAACA 1448

Db 2800 TGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACACGAGACTCAAAACA 2859

QY 1449 ACTGCTGGGACCATCCCAAAATGACAGAGTCTACCACTTTTAGCTGACCTGATAAT 1508

Db 2860 ACTGCTGGGACCATCCCAAAATGACAGAGTCTACCACTTTTAGCTGACCTGATAAT 2919

QY 1509 GTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCAGAAAGGCCCTTGC 1568

Db 2920 GTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAGACTGCAGAAAGGCCCTTGC 2979

QY 1569 TTGGATCTCTTGAGCCTGTGACCTGCATGTGATGCCCTTGACACGACCAACCTCAAGCAA 1628

Db 2980 TTGGATCTCTTGAGCCTGTGACCTGCATGTGATGCCCTTGACACGACCAACCTCAAGCAA 3039

QY 1629 AATGACCAAGCCATGGATATCTGTCAGATTATTAATTTGTTGACCACTATTTATGACCGC 1688

Db 3040 AATGACCAAGCCATGGATATCTGTCAGATTATTAATTTGTTGACCACTATTTATGACCGC 3099

QY 1689 CTGGAGCAAGAGCAACAATTTGGTCAAGTCCCTCTGTCGCTGGATATGTCTGTAAC 1748

Db 3100 CTGGAGCAAGAGCAACAATTTGGTCAAGTCCCTCTGTCGCTGGATATGTCTGTAAC 3159

QY 1749 TGGTGTGTAATTTATGATACGGGACGAGGAGGATCCGTGTCTCTTCTTTTAA 1808

Db 3160 TGGTGTGTAATTTATGATACGGGACGAGGAGGATCCGTGTCTCTTCTTTTAA 3219

QY 1809 ACTGGCATCATTTCCCTGTGTAAGACACATTTGGAAGACAGTACAGATACCTTTTCAAG 1868

Db 3220 ACTGGCATCATTTCCCTGTGTAAGACACATTTGGAAGACAGTACAGATACCTTTTCAAG 3279

QY 1869 CAAGTGGCAAGTTCACAGGATTTGTGACCAAGCGCAGGCTGGGCCCTCTCTGCAATGAT 1928

Db 3280 CAAGTGGCAAGTTCACAGGATTTGTGACCAAGCGCAGGCTGGGCCCTCTCTGCAATGAT 3339

QY 1929 TCTATCCAAATTCACAGAGTGGGTGAGTTGCATCCTTTGGGGGAGTAACATGAG 1988

Db 3340 TCTATCCAAATTCACAGAGTGGGTGAGTTGCATCCTTTGGGGGAGTAACATGAG 3399

QY 1989 CCAAGTGTCCGGA 2001

Db 3400 CCAAGTGTCCGGA 3412

RESULT 6

US-09-845-416-29

; Sequence 29, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 29

; LENGTH: 4825

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-29

Query Match 63.1%; Score 1263; DB 12; Length 4825;

Best Local Similarity 75.3%; Pred. No. 0;

Matches 1816; Conservative 0; Mismatches 185; Indels 412; Gaps 3;

QY 1 GGCAGTTCATTGATGGAGAGTGAACTAAACCTGGACCGTTTATCAAAACAGCTTTAGAAGAA 60

Db 1757 GGCAGTTCATTGATGGAGAGTGAACTAAACCTGGACCGTTTATCAAAACAGCTTTAGAAGAA 1816

QY 61 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCAGTCAAGGAGAGAGATTCTTAAT 120

Db 1817 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCAGTCAAGGAGAGAGATTCTTAAT 1876

QY 121 GATGTGGAAGTGGTGAAGACCAAGTTCATCTCATGAGGGTACATGATGGATTGACA 180

Db 1877 GATGTGGAAGTGGTGAAGACCAAGTTCATCTCATGAGGGTACATGATGGATTGACA 1936

QY 181 GCCCATCAGGGCCGGTTGGTAATATCTACAATTTGGGAAGTAAAGCTGATTGGAACAGGA 240

Db 1937 GCCCATCAGGGCCGGTTGGTAATATCTACAATTTGGGAAGTAAAGCTGATTGGAACAGGA 1996

QY 241 AAATTATCAGAAGATGAAGAAACCTGAAGTACAAGACAGATGAATCTCCTAAATTCAAGA 300

Db 1997 AAATTATCAGAAGATGAAGAAACCTGAAGTACAAGACAGATGAATCTCCTAAATTCAAGA 2056

QY 301 TGGGAATCCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTACATAGAGTTTAAATG 360

Db 2057 TGGGAATCCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTACATAGAGTTTAAATG 2116

QY 361 GATCTCCAGAATC-GAAACTGAAAGAGTTGAATGACTGGCTAACAACAAAGAGAAAGA 419

Db 2117 GATCTCCAGAATCAGAAGTGAAGAGTTGAATGACTGGCTAACAACAAAGAGAAAGA 2176

QY 420 ACAAGGAAATGGAGAAAGAGCCCTTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTA 479

Db 2177 ACAAGGAAATGGAGAAAGAGCCCTTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTA 2236

QY 480 CAACAACATAAGGTGCTTCAAGAGATCTAGAACAAAGAAACAGTCAAGGTCAATTCTCTC 539

Db 2237 CAACAACATAAGGTGCTTCAAGAGATCTAGAACAAAGAAACAGTCAAGGTCAATTCTCTC 2296

QY 540 ACTCACATGGTGGTGTAGTTGATGAATCTAGTGGAGATCAGGCAACTGCTGCTTTGGAA 599

Db 2297 ACTCACATGGTGGTGTAGTTGATGAATCTAGTGGAGATCAGGCAACTGCTGCTTTGGAA 2356

QY 600 GAACAACCTTAAGGTATGGGAGATCGATGGGCAACATCTGTAGATGGACAGAGACCCG 659

Db 2357 GAACAACCTTAAGGTATGGGAGATCGATGGGCAACATCTGTAGATGGACAGAGACCCG 2416

QY 660 TGGGTTCTTTTACAGACATCCTTCTCAAAATGGACAGTCTTACTGAAGAACAGTGCCTT 719
Db 2417 TGGGTTCTTTTACAGACACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAG 2476
QY 720 TTTAGTGCATGGCTTTTCAGAAAAGAACAGATGCAGTGAACAAGATTCACACAACTGGCTTT 779
Db 2477 TTTCTTGCCCTTACAGAGCTGAACAACCTGCCAATGTCCCTACAGGATGCTACCCGT 2536
QY 780 A-----AAGATCAAAATGAATGTTATCAAGTCTTCAAAAACCTGCCCGTT 824
Db 2537 AAGGAAAGGCTCCTAGAGAGCTCCAAGGGAGTAAACAGAGCTGATGAACAATGGCAAGAC 2596
QY 825 TTTAAAGCGGATCTAGAAAAGAAAAGCAATCCATGGGCAAACTGTATTCACCTCAAAACA 884
Db 2597 CTCGAAGGTGAATTTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAACAGCCAA 2656
QY 885 GATCTTCTTCAACACTGAAGAATAAGTCAGTGAACCAAGAGACGGAAGCATGGCTGGAT 944
Db 2657 AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTTACAAAAGACGTTGGAT 2716
QY 945 AACTTTGCCCGTGTGGGATAATTTAGTCCAAAACCTGAAAAGAGTACAGCAC----- 999
Db 2717 AACATGAACCTCAAGTGGAGTGAACCTTCGGAAAAGTCTCTCAACATTAGGTCCCATTTG 2776
QY 1000 ----- 999
Db 2777 GAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGTGTGG 2836
QY 1000 ----- 999
Db 2837 CTACAGCTGAAGCATGATGAATTAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCCAGCA 2896
QY 1000 ----- 999
Db 2897 GTTCAGAGCAGAACGATGTACATAGAGGCCCTTCAAGAGGGAATTGAAGAACTAAAGACCT 2956
QY 1000 ----- 999
Db 2957 GTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGCAGAGACGACCTTTTGGAGGA 3016
QY 1000 ----- 999
Db 3017 CTAGAGAAACTCTACCAGAGAGCCAGAGAGTGCCTCCTGAGAGAGAGAGCCAGAAATGTC 3076
QY 1000 ----- 999
Db 3077 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAAATTGAACCTG 3136
QY 1000 -----AGACCCCTTGAAGACTCCAGGAACCTCAA 1028
Db 3137 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCAA 3196
QY 1029 GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGG 1088
Db 3197 GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGG 3256
QY 1089 CAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGSCA 1148
Db 3257 CAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGSCA 3316
QY 1149 CTTGAGGAGAAAATTGCGCCCTCTGAAAAGAGACGTGAGCCAGCTCAATGACCTTGTCTGC 1208
Db 3317 CTTGAGGAGAAAATTGCGCCCTCTGAAAAGAGACGTGAGCCAGCTCAATGACCTTGTCTGC 3376
QY 1209 CAGCTTACCACCTTTGGGCATTCAGCTCTACCGTATACCTCAGCAGCTCTGGAAGACCTG 1268
Db 3377 CAGCTTACCACCTTTGGGCATTCAGCTCTACCGTATACCTCAGCAGCTCTGGAAGACCTG 3436
QY 1269 AACACAGATGGAAGCTTCTGCAGTGGCCGCTCGAGGACCGAGTCAAGCTGCAATGAA 1328
Db 3437 AACACAGATGGAAGCTTCTGCAGTGGCCGCTCGAGGACCGAGTCAAGCTGCAATGAA 3496
QY 1329 GCCACAGGGACTTTGGTCCAGCATCTCAGCACCTTCTTTCCACGCTCTGTCCAGGGTCCC 1388

Db 3497 GCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGTCTGTCCAGGTTCCC 3556
QY 1389 TGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACACGAGACTCAACA 1448
Db 3557 TGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACACGAGACTCAACA 3616
QY 1449 ACTGTCTGGACCATCCCAAATGACAGAGTCTACAGTCTTACAGTCTTTAGTGCCTGATAAT 1508
Db 3617 ACTGTCTGGACCATCCCAAATGACAGAGTCTACAGTCTTTAGTGCCTGATAAT 3676
QY 1509 GTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAAGACTGCAGAAGGCCCTTGC 1568
Db 3677 GTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAAGACTGCAGAAGGCCCTTGC 3736
QY 1569 TTGGATCTCTTGAGCCTGTGAGTGCATGTGATGCCCTTGAGACCAGCACAACTCAAGCAA 1628
Db 3737 TTGGATCTCTTGAGCCTGTGAGTGCATGTGATGCCCTTGAGACCAGCACAACTCAAGCAA 3796
QY 1629 AATGACCCAGCCCATGGATATCCTGTCAGATTATTAATTGTTGACCACTATTATGACCGC 1688
Db 3797 AATGACCCAGCCCATGGATATCCTGTCAGATTATTAATTGTTGACCACTATTATGACCGC 3856
QY 1689 CTGGACCAAGAGCACAACTTTGGTCAACCTCCCTCTCTGCGTGGATATGTCTGAAC 1748
Db 3857 CTGGACCAAGAGCACAACTTTGGTCAACCTCCCTCTCTGCGTGGATATGTCTGAAC 3916
QY 1749 TGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCCTGTCTCTTTTAAA 1808
Db 3917 TGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCCTGTCTCTTTTAAA 3976
QY 1809 ACTGGCATCATTTCCCTGTGTAAGACACATTTGGAAGACAGTACAGATACCTTTTCAAG 1868
Db 3977 ACTGGCATCATTTCCCTGTGTAAGACACATTTGGAAGACAGTACAGATACCTTTTCAAG 4036
QY 1869 CAAGTGGCAAGTTCAACAGAGATTTGTGACCCAGCGCAGGCTGGGCTCTCTGTCATGAT 1928
Db 4037 CAAGTGGCAAGTTCAACAGAGATTTGTGACCCAGCGCAGGCTGGGCTCTCTGTCATGAT 4096
QY 1929 TCTATCCAAATTCGAAGACAGTTGGGTGAAGTGCATCCCTTTGGGGCAGTAACATTGAG 1988
Db 4097 TCTATCCAAATTCGAAGACAGTTGGGTGAAGTGCATCCCTTTGGGGCAGTAACATTGAG 4156
QY 1989 CCAAGTGTCCGGA 2001
Db 4157 CCAAGTGTCCGGA 4169

RESULT 7
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 63.1%; Score 1263; DB 12; Length 4848;
Best Local Similarity 75.3%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 185; Indels 412; Gaps 3;

QY 1 GGCAGTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTTATCAACACAGCTTTAGAAGAA 60
Db 1780 GGCAGTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTTATCAACACAGCTTTAGAAGAA 1839
QY 61 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATGTCGAAGCAAGGAGAGATTTCTAAT 120
Db 1840 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATGTCGAAGCAAGGAGAGATTTCTAAT 1899
QY 121 GATGTGGAAGTGGTGAAGAACCCAGTTTCATACATGAGGGTACATGATGATTTGACA 180
Db 1900 GATGTGGAAGTGGTGAAGAACCCAGTTTCATACATGAGGGTACATGATGATTTGACA 1959
QY 181 GCCCATCAGGGCCGGTGGTAATATCTACAAATTGGGAAGTAAAGCTGATTTGAACAGGA 240
Db 1960 GCCCATCAGGGCCGGTGGTAATATCTACAAATTGGGAAGTAAAGCTGATTTGAACAGGA 2019
QY 241 AAATTATCAGAAGATCAAGAAACTGAAGTACAGAGCAGATGAATCTCCTAAATTCAGA 300
Db 2020 AAATTATCAGAAGATCAAGAAACTGAAGTACAGAGCAGATGAATCTCCTAAATTCAGA 2079
QY 301 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTACATAGAGTTTAAATG 360
Db 2080 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTACATAGAGTTTAAATG 2139
QY 361 GATCTCCAGAAATC-GAAACTGAAGAGATTGAATGACTGGCTAACAAAAACAGAAAGAA 419
Db 2140 GATCTCCAGAAATCAGAAACTGAAGAGATTGAATGACTGGCTAACAAAAACAGAAAGAA 2199
QY 420 ACAAGGAAAAATGGAGGAAGAGCCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTA 479
Db 2200 ACAAGGAAAAATGGAGGAAGAGCCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTA 2259
QY 480 CAACAACATAAGGTGTTCAAGAAAGATCTAGAAACAAGAACAACTCAGGGTCAATTCTCTC 539
Db 2260 CAACAACATAAGGTGTTCAAGAAAGATCTAGAAACAAGAACAACTCAGGGTCAATTCTCTC 2319
QY 540 ACTCACATGGTGGTAGTTGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 599
Db 2320 ACTCACATGGTGGTAGTTGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 2379
QY 600 GAACAACCTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCG 659
Db 2380 GAACAACCTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCG 2439
QY 660 TGGGTTCTTTTACAGACATCCTTCTCAAATGGCAACGCTTACTGAAGACAGTGCCCT 719
Db 2440 TGGGTTCTTTTACAGACACTCATAGATTACTGCAACAGTTCCCTCCCTGGACCTGGAAG 2499
QY 720 TTTAGTGCATGGCTTTCAGAAAAAGAAAGATGCACTGAACAGATTTCACAACTGGCTTT 779
Db 2500 TTTCTGCTGGCTTACAGAAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGT 2559
QY 780 A-----AAGATCAAATGAATGTTATCAAGTCTTCAAAGTCTCAAAGTGGCCGT 824
Db 2560 AAGGAAGGCTCCTAGAAAGACTCCAGGGAGTAAAGAGCTGATGAACAAATGGCAAGAC 2619
QY 825 TTAACCGGATCTAGAAAAAGAAAAAGCAATCCATGGGCAAACTGTATTCACTCAAACAA 884
Db 2620 CTCCAGGTGAATGAAGCTCACACAGATGTTTATCACAACTGGATGAACAGGCCAA 2679
QY 885 GATCTTCTTTCAACACTGAAGAAATGAAGTCACTGACCCAGAGACGGAAGCATGGCTGGAT 944
Db 2680 AAAATCCTGAGATCCCTGGAAGGTCCCGATGATGCAGTCCCTGTACAAAGACGTTTGGAT 2739
QY 945 AACTTTGCCGGTGTGGGATAATTTAGTCCAAAAACTTGAAGAGATACAGCAC----- 999
Db 2740 AACATGAACCTCAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGTCCCATTTG 2799
QY 1000 ----- 999
Db 2800 GAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGGTGTG 2859
QY 1000 ----- 999

Db 2860 CTACAGCTGAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGCGGACTTTCCAGCA 2919
QY 1000 ----- 999
Db 2920 GTTCAGAAAGCAGAACGATGTACATAGGCCTTCAAGAGGGAATTGAAAACTAAAGAACCT 2979
QY 1000 ----- 999
Db 2980 GTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGA 3039
QY 1000 ----- 999
Db 3040 CTAGAGAAACTCTACCAGAGGCCAGAGAGCTGCCCTCTGAGGAGAGAGCCAGATGTC 3099
QY 1000 ----- 999
Db 3100 ACTCGGCTTCTACGAAAGCAGGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAACCTG 3159
QY 1000 -----AGACCTTTGAAAGACTCCAGGHACTTCAA 1028
Db 3160 CACTCCGCTGACTGSCAGAGAAAAAATAGATGAGACCTTTGAAAGACTCCAGGAATCTCAA 3219
QY 1029 GAGGCCACGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGATCAAGGGATCCTGG 1088
Db 3220 GAGGCCACGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGATCAAGGGATCCTGG 3279
QY 1089 CAGCCCGTGGCGATCTCCTCATTTGACFTCTCTCCAAAGATCACCTCGAGAAAAAGTCAAGGCA 1148
Db 3280 CAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAAAGATCACCTCGAGAAAAAGTCAAGGCA 3339
QY 1149 CTTGAGGAGAAAAATTGCGCTCTGAAAGAGAAACGTGAGCCACGTCAATGACCTTGCTCGC 1208
Db 3340 CTTGAGGAGAAAAATTGCGCTCTGAAAGAGAAACGTGAGCCACGTCAATGACCTTGCTCGC 3399
QY 1209 CAGCTTACCCTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCACTCTTGGAAAGACCTG 1268
Db 3400 CAGCTTACCCTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCACTCTTGGAAAGACCTG 3459
QY 1269 AACACCAGATGGAAGCTTCTGCAAGTGGCGTTCGAGGACCGGAGTCAAGGCACTGCAATGAA 1328
Db 3460 AACACCAGATGGAAGCTTCTGCAAGTGGCGTTCGAGGACCGGAGTCAAGGCACTGCAATGAA 3519
QY 1329 GCCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCCAGGCTCCC 1388
Db 3520 GCCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGCTGTCTCCAGGCTCCC 3579
QY 1389 TGGGAGAGAGCCATCTCGCCAAAAACAAGTGCCCTACTATATCAACCCAGAGACTCAAAACA 1448
Db 3580 TGGGAGAGAGCCATCTCGCCAAAAACAAGTGCCCTACTATATCAACCCAGAGACTCAAAACA 3639
QY 1449 ACTTGCTGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAAT 1508
Db 3640 ACTTGCTGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAAT 3699
QY 1509 GTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTTGC 1568
Db 3700 GTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAAGGCCCTTTGC 3759
QY 1569 TTGGATCTCTGAGCCTGTCAGCTGCATGTGATGCCCTGGACCAGCAACCTCAAGCAA 1628
Db 3760 TTGGATCTCTGAGCCTGTCAGCTGCATGTGATGCCCTGGACCAGCAACCTCAAGCAA 3819
QY 1629 AATGACCAGCCCATGGATATCCTGCAGATTAATAATGTTTGACCACTATTTATGACCGC 1688
Db 3820 AATGACCAGCCCATGGATATCCTGCAGATTAATAATGTTTGACCACTATTTATGACCGC 3879
QY 1689 CTGGAGCAGAGACACAAATTTGGTCAACGTCCCTCTCTCGTGGATATGTGTGAAC 1748
Db 3880 CTGGAGCAGAGACACAAATTTGGTCAACGTCCCTCTCTCGTGGATATGTGTGAAC 3939
QY 1749 TGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGCTCTTTTAA 1808
Db 1749 TGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGCTCTTTTAA 1808

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Db      3940  TGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGGATCCGTGCTCTTTTAAA 3999
QY      1809  ACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAG 1868
Db      4000  ACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAGATACCTTTTCAAG 4059
QY      1869  CAAAGTGGCAAGTTCAACAGGATTTTGTCACCAGCGCAGGCTGGGCCCTCTTCTGCATGAT 1928
Db      4060  CAAAGTGGCAAGTTCAACAGGATTTTGTCACCAGCGCAGGCTGGGCCCTCTTCTGCATGAT 4119
QY      1929  TCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAG 1988
Db      4120  TCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAG 4179
QY      1989  CCAAGTGTCCGGA 2001
Db      4180  CCAAGTGTCCGGA 4192

RESULT 8
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845.416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

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D _b	2412	ACAAAGGAAAATGGAGGAAGAGCCCTCTTTGGACCTGTATCCTTGAAGACCCTAAACGCCAAGTA	2471
Q _y	480	CAACAACATAAAGGTGCCTCAAGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATTCTCTC	539
D _b	2472	CAACAACATAAAGGTGCCTCAAGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATTCTCTC	2531
Q _y	540	ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACACTGCTCTTTGGAA	599
D _b	2532	ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACACTGCTCTTTGGAA	2591
Q _y	600	GAACAACCTAAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAAGACCGC	659
D _b	2592	GAACAACCTAAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAAGACCGC	2651
Q _y	660	TGGGTCTCTTTTACAAGACATCCTTCTCAAATGGCAACGCTTACTGAAGAACAAGTGCCCTT	719
D _b	2652	TGGGTCTCTTTTACAAGACATCCTTCTCAAATGGCAACGCTTACTGAAGAACAAGTGCCCTT	2711
Q _y	720	TTTAGTGCATGGCTTTCAGAAAAAGAAAGATGCAGTGAACAAAGATTACACACAACCTGGCTTT	779
D _b	2712	TTTCTTGCCCTGGCTTACAGAAGCTGAAACAACACTGCCAATGTCTCTACAGGATGCTACCCGT	2771
Q _y	780	A-----AAGATCAAAATGAAATGTTATCRAGTCTTCAAAAACCTGGCCGTT	824
D _b	2772	AAGGAAAGGCTCCTAGAAGACTCCAAGGAGTAAAGAGCTGATGAACAATGGCAAGAC	2831
Q _y	825	TTAAAAGCGGATCTAGAAAAAGAAAAAGCAATCCATGGGGCAAACTGTATTCACTCAAAACA	884
D _b	2832	CTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAAACAGCCAA	2891
Q _y	885	GATCTTCTTCAACACTGAAGAATAAGTCAGTGACCCAGAAAGACGGAAGCATGGCTGGAT	944
D _b	2892	AAAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTCTCTTTACAAAGACGTTTGGAT	2951
Q _y	945	AACCTTTCGCCGGTGTGGGATAATTAGTCCAAAAAATGAAAAAGAGTACAGCAC-----	999
D _b	2952	AACATGAACCTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTG	3011
Q _y	1000	-----	999
D _b	3012	GAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGG	3071
Q _y	1000	-----	999
D _b	3072	CTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGCACTTCCAGCA	3131
Q _y	1000	-----	999
D _b	3132	GTTCAGAAAGCAGAACGATGTACATAGGGCCTTCAAGAGGGAATTGAAAACTAAAGAACCT	3191
Q _y	1000	-----	999
D _b	3192	GTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCCTTTGGAAGGA	3251
Q _y	1000	-----	999
D _b	3252	CTAGAGAAACTCTACCAGGAGCCCCAGAGAGTGCCTCCTGAGGAGAGAGCCAGAGATGTC	3311
Q _y	1000	-----	999
D _b	3312	ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAACCTG	3371
Q _y	1000	-----AGACCCCTGAAAGACTCCAGGAACCTTCAA	1028
D _b	3372	CACCTCCGCTGACTGGCAGAGAAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCAA	3431
Q _y	1029	GAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGG	1088
D _b	3432	GAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTGG	3491
Q _y	1089	CAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCA	1148

Db	3492	CAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCA	3551
QY	1149	CTTCGAGGAGAAAATTGCGCCTCTGAAAGAGAAACGTGAGCCACAGTCAATGACCTTGCTCGC	1208
Db	3552	CTTCGAGGAGAAAATTGCGCCTCTGAAAGAGAAACGTGAGCCACAGTCAATGACCTTGCTCGC	3611
QY	1209	CAGCTTACCACCTTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTG	1268
Db	3612	CAGCTTACCACCTTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTG	3671
QY	1269	AACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAA	1328
Db	3672	AACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAA	3731
QY	1329	GCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTCCAGCTCTTCCAGTGTCCAGGTCCTC	1388
Db	3732	GCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTCCAGCTCTTCCAGTGTCCAGGTCCTC	3791
QY	1389	TGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCCAGAGACTCAACA	1448
Db	3792	TGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCCAGAGACTCAACA	3851
QY	1449	ACTTGCTGGAGCCATCCCAAAAATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATAAT	1508
Db	3852	ACTTGCTGGAGCCATCCCAAAAATGACAGAGCTCTACCACTCTTTAGCTGACCTGAATAAT	3911
QY	1509	GTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAGGCCCTTTC	1568
Db	3912	GTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACTGCAGAAGGCCCTTTC	3971
QY	1569	TTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTTGACCAGCAGCAACCTCAAGCA	1628
Db	3972	TTGGATCTCTTGAGCCTGTGAGCTGCATGTGATGCCCTTGACCAGCAGCAACCTCAAGCA	4031
QY	1629	AATGACCAGCCCATGGATATCCTGCAGATTATTAATTGTTTGACCACATTTATGACCGC	1688
Db	4032	AATGACCAGCCCATGGATATCCTGCAGATTATTAATTGTTTGACCACATTTATGACCGC	4091
QY	1689	CTGGAGCAAGAGCACAAACAATTGGTCAACGTCCCCTCTCTCGGTGGATATGTCTGAAC	1748
Db	4092	CTGGAGCAAGAGCACAAACAATTGGTCAACGTCCCCTCTCTCGGTGGATATGTCTGAAC	4151
QY	1749	TGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGCTCTCTTTTAAA	1808
Db	4152	TGGCTGCTGAATGTTTATGATACGGGACGAACAGGAGGATCCGTGCTCTCTTTTAAA	4211
QY	1809	ACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACCTTTTCAG	1868
Db	4212	ACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAAGTACAGATACCTTTTCAG	4271
QY	1869	CAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGAGGCTGGCCCTCCTTCTGCATGAT	1928
Db	4272	CAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGAGGCTGGCCCTCCTTCTGCATGAT	4331
QY	1929	TCTATCCAAATTCCAAGACAGTTGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAG	1988
Db	4332	TCTATCCAAATTCCAAGACAGTTGGTGAAGTTGCATCCTTTGGGGCAGTAACATTGAG	4391
QY	1989	CCAAGTGTCCGGA	2001
Db	4392	CCAAGTGTCCGGA	4404

RESULT 9
 US-09-845-416-10
 ; Sequence 10, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; TITLE OF INVENTION: THEREOF
 ; FILE REFERENCE: DE1142
 ; CURRENT APPLICATION NUMBER: US/09/845,416

Db 1840 GCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAAATCATGAGTACTCTTTGAGACTGTA 1899

QY 872 -----TTCACCTCAACAAGATCTTCTTTCAACACTGAGAAATAAGTCAGTGACCCAGA 924

Db 1900 CGAATATTTCTGACAGAGCAGCCTTTGGAGGACTAGAGAAACTCTACAGGAGCCAGA 1959

QY 925 AGACGGAAGCATGGCTGGA-----TAACTTTGCCCGGT 957

Db 1960 GAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTCAG 2019

QY 958 GTTGGGATAATTTAGTCCAAAATTTGAA-----AAGAGTACA 995

Db 2020 GAGGTCAATACTGAGTGGGAAAATTTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATA 2079

QY 996 GCACAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGTGGACCTCAAG 1055

Db 2080 GATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGTGGACCTCAAG 2139

QY 1056 CTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGAC 1115

Db 2140 CTGCGCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGAC 2199

QY 1116 TCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCCTCTGAAA 1175

Db 2200 TCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCCTCTGAAA 2259

QY 1176 GAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTTACCACCTTTGGGCATTCAGCTC 1235

Db 2260 GAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTTACCACCTTTGGGCATTCAGCTC 2319

QY 1236 TCACCGTATAACCTCAGCACCTCTGGGAAGACCTGGAACACCAAGATGGAAGCTTCTGCAGGTG 1295

Db 2320 TCACCGTATAACCTCAGCACCTCTGGAAGACCTGGAACACCAAGATGGAAGCTTCTGCAGGTG 2379

QY 1296 GCCGTCGAGGACCGAGTCAGGCACTGCATGAAGCCCAACAGGCACTTTGGTCCAGCATCT 1355

Db 2380 GCCGTCGAGGACCGAGTCAGGCACTGCATGAAGCCCAACAGGCACTTTGGTCCAGCATCT 2439

QY 1356 CAGCACTTTCTTCCACAGTCTGTCCAGGGTCCCTGGGAGAGGCCATCTCGCCAAACAAA 1415

Db 2440 CAGCACTTTCTTCCACAGTCTGTCCAGGGTCCCTGGGAGAGGCCATCTCGCCAAACAAA 2499

QY 1416 GTGCCCTACTATATCAACCACGAGACTCAAAACAACTTGCTGGGACCATCCCAAAATGACA 1475

Db 2500 GTGCCCTACTATATCAACCACGAGACTCAAAACAACTTGCTGGGACCATCCCAAAATGACA 2559

QY 1476 GAGCTTACCAGTCTTTAGCTGACCTGAATAATGTCCAGATTTTCAGCTTATAGGACTGCC 1535

Db 2560 GAGCTTACCAGTCTTTAGCTGACCTGAATAATGTCCAGATTTTCAGCTTATAGGACTGCC 2619

QY 1536 ATGAAACTCCGAAGACTGCAGAGGCCCTTTTGGTTGGATCTCTTGAGCCCTGCAGCTGCA 1595

Db 2620 ATGAAACTCCGAAGACTGCAGAGGCCCTTTTGGTTGGATCTCTTGAGCCCTGCAGCTGCA 2679

QY 1596 TGTGATGCCCTTGACCAAGCACAACTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAG 1655

Db 2680 TGTGATGCCCTTGACCAAGCACAACTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAG 2739

QY 1656 ATTATTAATTTGTTGACCACACTATTTATGACCGCTGGAGCAGACACAAATTTGGTC 1715

Db 2740 ATTATTAATTTGTTGACCACACTATTTATGACCGCTGGAGCAGACACAAATTTGGTC 2799

QY 1716 AACGTCCCTCTCTGCGTGGATATGTGTCTGAACGTGGCTGTGAATGTTTATGATACGGGA 1775

Db 2800 AACGTCCCTCTCTGCGTGGATATGTGTCTGAACGTGGCTGTGAATGTTTATGATACGGGA 2859

QY 1776 CGAACAGGGAGGATCCGTGCTCCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCA 1835

Db 2860 CGAACAGGGAGGATCCGTGCTCCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCA 2919

QY 1836 CATTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGT 1895

Db 2920 CATTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGT 2979

QY 1896 GACCAGCGCAGGCTGGGCTCCTTCTGCATGATTTCTATCCAAATCCAAAGACAGTTGGT 1955

Db 2980 GACCAGCGCAGGCTGGGCTCCTTCTGCATGATTTCTATCCAAATCCAAAGACAGTTGGT 3039

QY 1956 GAAAGTTGCATCCTTTTGGGGCAGTAACATTTAGCCCAAGTGTCCGGA 2001

Db 3040 GAAAGTTGCATCCTTTTGGGGCAGTAACATTTAGCCCAAGTGTCCGGA 3085

RESULT 10

US-09-845-416-30

; Sequence 30, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 30

; LENGTH: 4498

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-30

Query Match 62.5%; Score 1251.2; DB 12; Length 4498;

Best Local Similarity 77.8%; Pred. No. 0;

Matches 1623; Conservative 0; Mismatches 378; Indels 85; Gaps 6;

QY 1 GGCAGTTCAITGATGGAGACTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAGAA 60

Db 1757 GGCAGTTCAITGATGGAGACTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAGAA 1816

QY 61 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCTAAT 120

Db 1817 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCTAAT 1876

QY 121 GATGTGGAAGTGGTGAAAGACCAGTTTCTATCTCATGAGGGGTACATGATGGATTGACA 180

Db 1877 GATGTGGAAGTGGTGAAAGACCAGTTTCTATCTCATGAGGGGTACATGATGGATTGACA 1936

QY 181 GCCATCAGGCGCGGTTGGTAAATATTCTACAATTTGGGAAGTAAGCTGATGGAAAGGA 240

Db 1937 GCCATCAGGCGCGGTTGGTAAATATTCTACAATTTGGGAAGTAAGCTGATGGAAAGGA 1996

QY 241 AAATTATCAGAAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCTAAATTCAGAA 300

Db 1997 AAATTATCAGAAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCTAAATTCAGAA 2056

QY 301 TGGGAATGCCCTCAGGGTAGCTAGCATGGAAGAAACAAAGCAATTTACATAGAGTTTAAATG 360

Db 2057 TGGGAATGCCCTCAGGGTAGCTAGCATGGAAGAAACAAAGCAATTTACATAGAACTCATAGA 2116

QY 361 GATCTCCAGAA-----TCGAAACTGAAAGAGTTGATGACTGGCTAACAAAAACAGAA 413

Db 2117 TTAAGTCAACAGTTCCCGCTGGACCTGGAAAGTTTCTTGCCTGGCTTACAGAAAGTGAA 2176

QY 414 GAAAGAACACAGAAATGGAGGAAGAGCCTCTTTGGACCTGATCTTTGAAGACCTTAAACGC 473

Db 2177 ACAACTGCCAATGTCTTACAGGATGTACCCGTAAAGGAAGGCTCCTTAGAAGACTCCAAAG 2236

QY 474 CAAGTACAACACATAAGGTGCTTCAAGAAAGATCTAGAACAAAGAACAGTCAAGGTCAAT 533

Db 2237 GGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAATTTGAAGCTCACACA 2296

QY 534 TCTCTCACTCACATGGTGGTGGTAGTTGATGA-----ATCTAGTGGAGATCAC 581

Db 2297 GATGTTTATACAAACCTGGATGAAACAGCCAAAAATCCTGAGATCCCTGGAGGTTCC 2356
QY 582 GCAACTGCTGCTTTGGAAGAACAACTTAAGG---TATTGGAGATCGATGGGCAAAATC 638
Db 2357 GATGATGAGTCCCTGTACAAAGACGCTTTGGATAACATGAACCTCAAGTGGAGTGAACCT 2416
QY 639 TGTAGATGACAGACAGACCGCTGGGTTCTTTTACAAAGACATCCTTCTCAAAATGGCAACGT 698
Db 2417 CGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTCTGACCAAGTGAAGCGT 2476
QY 699 CTTACTGAAGAACAGTGCCTTTTATGTGATGGCTTTTCAAGAAAGAAAGAGATGCAGTGAAC 758
Db 2477 CTGCACCTTCTCTGCAGGAACCTCTGTGTGTGTACAGCTGCAAGATGATGAATTAAGC 2536
QY 759 AAGATTACACAACACTGGCTTTTAAAGATCAAAATCAAAATGTTATCAAGTCTCAAAAACGT 818
Db 2537 CGGCAGGACCTATTGGAGCGGACTTCCAGCAGTTCAGAAAGCAAGCAAGCAAGTACATAGG 2596
QY 819 GCCGTTTAAAGCGGATCTAGAAAGAAAAAGCAATCCATGGGCAAACTGTA----- 871
Db 2597 GCCTTCAAGAGGGGAATTGAAAACTTAAAGAACTTAAGAACTTAATCAAGTACTCTTGAGACTGA 2656
QY 872 -----TTCACCTCAAAACAAGATCTCTTTCAACACTGAAGATAAAGTCAAGTGAACOCAGA 924
Db 2657 CGAATATTCTGACAGACAGCCCTTTTGAAGGACTAGAGAAACTTACCAGGAGCCOCAGA 2716
QY 925 AGACGGAAGCATGGCTGGA-----TAACTTTGCCCGGT 957
Db 2717 GAGCTGCCCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAG 2776
QY 958 GTTGGGATAATTAGTCAAAAAACTTGAA-----AAGAGTACA 995
Db 2777 GAGGTCAATACTGAGTGGGAAAAAATTGAACCTGCACCTCGCTGACTGGCAGAGAAAAATA 2836
QY 996 GCACAGACCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGTGGACCTCAAG 1055
Db 2837 GATGAGACCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGTGGACCTCAAG 2896
QY 1056 CTGCGCCAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGAC 1115
Db 2897 CTGCGCCAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCCTCATTTGAC 2956
QY 1116 TCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCGCTCTGAAA 1175
Db 2957 TCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCGCTCTGAAA 3016
QY 1176 GAGAACGTGAGCCACCGTCAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGCTC 1235
Db 3017 GAGAACGTGAGCCACCGTCAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTCAGCTC 3076
QY 1236 TCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCAGATGGAAGCTTCTGCAGGTG 1295
Db 3077 TCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCAGATGGAAGCTTCTGCAGGTG 3136
QY 1296 GCCGTCGAGGACCGAGTCAAGGCACTGATGAAGCCACAGGACTTTTGGTCCAGCATCT 1355
Db 3137 GCCGTCGAGGACCGAGTCAAGGCACTGATGAAGCCACAGGACTTTTGGTCCAGCATCT 3196
QY 1356 CAGCACTTTCTTCCACGCTGTCTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAA 1415
Db 3197 CAGCACTTTCTTCCACGCTGTCTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAA 3256
QY 1416 GTGCCCTACTATATCAACACGAGACTCAAAACAACTGCTGGGACCATCCAAAATGACA 1475
Db 3257 GTGCCCTACTATATCAACACGAGACTCAAAACAACTGCTGGGACCATCCAAAATGACA 3316
QY 1476 GAGCTCTACCACTCTTTAGCTGACCTGTAATAATGTCAAGATCTCAGCTTATAGGACTGCC 1535
Db 3317 GAGCTCTACCACTCTTTAGCTGACCTGTAATAATGTCAAGATCTCAGCTTATAGGACTGCC 3376
QY 1536 ATGAAACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTGAGCTGCA 1595
Db 3377 ATGAAACTCCGAAGACTGCAGAAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTGAGCTGCA 3436

QY 1596 TGTGATGCCCTTGGACAGCACACACCTCAAGCAAAATGACACAGCCCATGATATCCTGCAG 1655
Db 3437 TGTGATGCCCTTGGACAGCACACACCTCAAGCAAAATGACACAGCCCATGATATCCTGCAG 3496
QY 1656 ATTATTAATTTGTTGACCACTATTATGACCGCTGGAGCAAGAGCAACAATTTGGTC 1715
Db 3497 ATTATTAATTTGTTGACCACTATTATGACCGCTGGAGCAAGAGCAACAATTTGGTC 3556
QY 1716 AACGTCCTCTCTCGCTGGATATGTCTGACTGGCTGCTGAATGTTTATGATACGGGA 1775
Db 3557 AACGTCCTCTCTCGCTGGATATGTCTGACTGGCTGCTGAATGTTTATGATACGGGA 3616
QY 1776 CGAACAGGGAGGATCCGTGTCCTCTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCA 1835
Db 3617 CGAACAGGGAGGATCCGTGTCCTCTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCA 3676
QY 1836 CATTTGGAAGACAAAGTACAGTACACTTTTTCRAGCAAGTGGCAAGTTTCRACAGGATTTGT 1895
Db 3677 CATTTGGAAGACAAAGTACAGTACACTTTTTCRAGCAAGTGGCAAGTTTCRACAGGATTTGT 3736
QY 1896 GACCAGCGCAGGCTGGCCCTCCTCTCTGCTGCTGATCTATCCAAATTCRAGACAGTTGGGT 1955
Db 3737 GACCAGCGCAGGCTGGCCCTCCTCTCTGCTGCTGATCTATCCAAATTCRAGACAGTTGGGT 3796
QY 1956 GAAGTTGCATCCTTTGGGGGCGAGTAAACATTGAGCCAAAGTGTCCCGGA 2001
Db 3797 GAAGTTGCATCCTTTGGGGGCGAGTAAACATTGAGCCAAAGTGTCCCGGA 3842

RESULT 11

US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 62.2%; Score 1245; DB 12; Length 4182;
Best Local Similarity 73.1%; Pred. No. 0;
Matches 2001; Conservative 0; Mismatches 0; Indels 736; Gaps 2;
QY 1 GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCCGTTATCAAAACAGCTTTAGAAGAA 60
Db 1000 GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCCGTTATCAAAACAGCTTTAGAAGAA 1059
QY 61 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCGACCAAGGAGAGATTTCTAAT 120
Db 1060 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCGACCAAGGAGAGATTTCTAAT 1119
QY 121 GATGTGGAAGTGGTGAAGACCAAGTTCATACATCATGAGGGGTACATGATGGATTGACA 180
Db 1120 GATGTGGAAGTGGTGAAGACCAAGTTCATACATCATGAGGGGTACATGATGGATTGACA 1179
QY 181 GCCCATCAGGCGCGGTTGGTAATATTCTACAAATGGGAAGTAAGCTGATGGACAGGA 240
Db 1180 GCCCATCAGGCGCGGTTGGTAATATTCTACAAATGGGAAGTAAGCTGATGGACAGGA 1239
QY 241 AAATTATCAGAAGATGAAGAAACTGAAGTACAGACAGATGAATCTCCTAAATTCACAGA 300

Db 1240 AAATTATCAGAGATGAAGAACTGAAGTACAGAGCAGATGAATCTCTAAATCAAGA 1299
QY 301 TGGGAATGCCCTCAGGGTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAATG 360
Db 1300 TGGGAATGCCCTCAGGGTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAATG 1359
QY 361 GATCTCCAGAAATC-GAAACTGAAAGAGTTGAATGACTGGCTAAACAAAAACAGAAAGA 419
Db 1360 GATCTCCAGAAATCAGAACTGAAGAGTTGAATGACTGGCTAAACAAAAACAGAAAGA 1419
QY 420 ACAAGGAAAAATGGAGGAAGAGCCCTCTTGGACCTGATCTTGAAGACCTAAAAACGCAAGTA 479
Db 1420 ACAAGGAAAAATGGAGGAAGAGCCCTCTTGGACCTGATCTTGAAGACCTAAAAACGCAAGTA 1479
QY 480 CAACAACATAAAGGTGCTTCAAGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATCTCTC 539
Db 1480 CAACAACATAAAGGTGCTTCAAGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATCTCTC 1539
QY 540 ACTCACATGGTGGTGGTGTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGA 599
Db 1540 ACTCACATGGTGGTGGTGTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGA 1599
QY 600 GAACAACCTAAAGGTATTGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCG 659
Db 1600 GAACAACCTAAAGGTATTGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCG 1659
QY 660 TGGGTTCTTTTACAAGACATCCTTCTCAATGGCAAGCTCTTACTGAAGAACAGTGCCTT 719
Db 1660 TGGGTTCTTTTACAAGACATCCTTCTCAATGGCAAGCTCTTACTGAAGAACAGTGCCTT 1719
QY 720 TTTAGTGCATGGCTTTCAGAAAAAGAGATGCAGTGAACAAGATTCACACAACAGTGCCTT 779
Db 1720 TTTAGTGCATGGCTTTCAGAAAAAGAGATGCAGTGAACAAGATTCACACAACAGTGCCTT 1779
QY 780 AAAGATCAAAATGAATGTATCAAGTCTTCAAAACTGGCCGTTTAAAGCGGATCTA 839
Db 1780 AAAGATCAAAATGAATGTATCAAGTCTTCAAAACTGGCCGTTTAAAGCGGATCTA 1839
QY 840 GAAAAGAAAAAGCAATCCATGGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACA 899
Db 1840 GAAAAGAAAAAGCAATCCATGGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACA 1899
QY 900 CTGAAGAATAAGTCAGTGACCCAGAGACGGAGCATGGCTGGATAACTTTGCCCGGTGT 959
Db 1900 CTGAAGAATAAGTCAGTGACCCAGAGACGGAGCATGGCTGGATAACTTTGCCCGGTGT 1959
QY 960 TGGGATAATTTAGTCCAAAAAATTTGAAAAGAGTACAGAC- 999
Db 1960 TGGGATAATTTAGTCCAAAAAATTTGAAAAGAGTACAGACATATAGTACTGCAA 2019
QY 1000 ----- 999
Db 2020 CAGTTCCCCCTGGACCTGGAAAAAGTTTCTTGCTGGCTTACAGAAAGCTGAAACAACGTGC 2079
QY 1000 ----- 999
Db 2080 AATGTCCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGACTCCCAAGGAGTAAAA 2139
QY 1000 ----- 999
Db 2140 GAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTGAAGCTCACACAGATGTTTAT 2199
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Db 2200 CACAACCTGGATGAAAACAGCCAAAAATCTCGATCCCTGGAAAGTTCCGATGATGCA 2259
QY 1000 ----- 999
Db 2260 GTCCTGTTACAAGAAGCGTTTGGATAACATGAAGTTCAGAGTGAAGTTCGGAAGAAAG 2319
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QY 1000 ----- 999
Db 2380 TCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGSCA 2439
QY 1000 ----- 999
Db 2440 CCTATTGGAGGCCGACTTCCAGCAGTTTCAAGACAGTTTCAAGACATGTACATAGGCCCTTCAAG 2499
QY 1000 ----- 999
Db 2500 AGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTT 2559
QY 1000 ----- 999
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QY 1000 ----- 999
Db 2620 CCTGAGGAGAGAGCCAGAAATGTCACCTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAAT 2679
QY 1000 -----AGACC 1004
Db 2680 ACTGAGTGGAAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACC 2739
QY 1005 CTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGTGGACCTCAAGCTGCGCAA 1064
Db 2740 CTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGTGGACCTCAAGCTGCGCAA 2799
QY 1065 GCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGATCTCTCATCTGACTCTCTCCAA 1124
Db 2800 GCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGATCTCTCATCTGACTCTCTCCAA 2859
QY 1125 GATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACGTG 1184
Db 2860 GATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACGTG 2919
QY 1185 AGCCACGTCAATGACCTTGTCTGCCAGCTTACCACCTTTGGSCATTCAGCTCTCACCGTAT 1244
Db 2920 AGCCACGTCAATGACCTTGTCTGCCAGCTTACCACCTTTGGSCATTCAGCTCTCACCGTAT 2979
QY 1245 AACCTCAGCACTCTGGAAGACCTGAACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAG 1304
Db 2980 AACCTCAGCACTCTGGAAGACCTGAACACCAGATGGAAGCTTCTGCAGGTGGCCGTCGAG 3039
QY 1305 GACCGAGTCAGGAGCTGCATGAAGCCCCACAGGGACTTTTGGTCCAGCATCTCAGCACATT 1364
Db 3040 GACCGAGTCAGGAGCTGCATGAAGCCCCACAGGGACTTTTGGTCCAGCATCTCAGCACATT 3099
QY 1365 CTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAGTGGCCCTAC 1424
Db 3100 CTTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTGCCAAACAAAGTGGCCCTAC 3159
QY 1425 TATATCAACCACGAGACTCAAAACAACCTTGTGGGACCATCCCCAAAATGACAGAGCTTAC 1484
Db 3160 TATATCAACCACGAGACTCAAAACAACCTTGTGGGACCATCCCCAAAATGACAGAGCTTAC 3219
QY 1485 CAGTCTTTAGCTGACCTGAAATATGTCAAGTCTCAGCTTATAGGACTGCCATGAAACTC 1544
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QY 1545 CGAAGACTGCAGAGGCCCTTTTGGATCTTTGAGCTGTGAGCTGTGAGCTGTGATGCC 1604
Db 3280 CGAAGACTGCAGAGGCCCTTTTGGATCTTTGAGCTGTGAGCTGTGAGCTGTGATGCC 3339
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Db 3340 TTGGACCAGCACACCTCAAGCAAAATGACCAGCCCATGGATATCTCTGAGATTATTAAT 3399
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QY 1725 CTCTGCGTGGATATGTGTCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGACAGGG 1784
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QY 1785 AGGATCCGCTCCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAA 1844
Db 3520 AGGATCCGCTCCTGTCTTTTAAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAA 3579
QY 1845 GACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGTGACCCAGCGC 1904
Db 3580 GACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGTGACCCAGCGC 3639
QY 1905 AGGCTGGGCTCCTTCTGTCATGATTTCTATCCAAATCCAAAGACAGTTGGTGAAGTTGCA 1964
Db 3640 AGGCTGGGCTCCTTCTGTCATGATTTCTATCCAAATCCAAAGACAGTTGGTGAAGTTGCA 3699
QY 1965 TCCTTTGGGGCAGTAACATTTGAGCCCAAGTGTCCCGGA 2001
Db 3700 TCCTTTGGGGCAGTAACATTTGAGCCCAAGTGTCCCGGA 3736
RESULT 12
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27
Query Match 62.2%; Score 1245; DB 12; Length 5149;
Best Local Similarity 73.1%; Pred. No. 0;
Matches 2001; Conservative 0; Mismatches 0; Indels 736; Gaps 2;
QY 1 GGCAGTTCATGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAAGAA 60
Db 1757 GGCAGTTCATGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAAGAA 1816
QY 61 GTATTATCGTGGCTTCTTTCTGCTGAGACACATTTGCAAGCAGCAGAGAGATTCTTAAT 120
Db 1817 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTTGCAAGCAGCAGAGAGATTCTTAAT 1876
QY 121 GATGTGGAAGTGGTGAAGACACAGTTTCTACTCATGAGGGGTACATGATGGATTGACA 180
Db 1877 GATGTGGAAGTGGTGAAGACACAGTTTCTACTCATGAGGGGTACATGATGGATTGACA 1936
QY 181 GGCATCAGGCGGGTGGTGAATATTCTAATTTGGAAGTAAAGCTGATGGACAGGA 240
Db 1937 GGCATCAGGCGGGTGGTGAATATTCTAATTTGGAAGTAAAGCTGATGGACAGGA 1996
QY 241 AAATTATCAGAGATGAAGAACTGAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 300
Db 1997 AAATTATCAGAGATGAAGAACTGAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 2056
QY 301 TGGGAATGCCCTCAGGCTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAATG 360
Db 2057 TGGGAATGCCCTCAGGCTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAATG 2116
QY 361 GATCTCCAGAAATC-GAAACTGAAAGAGTTGAATGATGCTGCTAACAAAAACAGAAAGAA 419
Db 2117 GATCTCCAGAAATCAGAAACTGAAAGAGTTGAATGATGCTGCTAACAAAAACAGAAAGAA 2176

QY 420 ACAAGGAAATGGAGGAAGAGCCTCTTGGACCTGATCTTGAAGACCTTAAACGCAAGTA 479
Db 2177 ACAAGGAAATGGAGGAAGAGCCTCTTGGACCTGATCTTGAAGACCTTAAACGCAAGTA 2236
QY 480 CAACAACATAGGTGCTTCAAGAAAGATCTAGAACAAAGAACAAAGTCAAGGTCAATCTCTC 539
Db 2237 CAACAACATAGGTGCTTCAAGAAAGATCTAGAACAAAGAACAAAGTCAAGGTCAATCTCTC 2296
QY 540 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 599
Db 2297 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 2356
QY 600 GAACAACCTTAAGGTATTGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGC 659
Db 2357 GAACAACCTTAAGGTATTGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGC 2416
QY 660 TGGGTCTTTTACAAGACATCCTTCTCAATATGGCAACGCTTACTGAAGAACAGTGCCTT 719
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Db 2717 TGGGATAAATTTAGTCCAAAAAATTTGAAAAGAGTACAGCACAGACTCATAGATTACTGCAA 2776
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QY 1000 ----- 999
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Db 3317 CTGACAGAGACGCCCTTGGAAAGGACTAGAGAAACTCTACCAGGAGCCACAGAGAGCTGCCT 3376
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QY 1000 -----AGACC 1004
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QY 1005 CTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAA 1064
Db 3497 CTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAA 3556
QY 1065 GCTGAGTGATCAAGGGATCCTGGCAGCCCCGTGGCGGATCTCTCTCATTTGACTCTCTCCAA 1124
Db 3557 GCTGAGTGATCAAGGGATCCTGGCAGCCCCGTGGCGGATCTCTCTCATTTGACTCTCTCCAA 3616
QY 1125 GATCAGCTCGAGAAAGTCAAGGCATTCGAGGAGAAAATTCGGCCTCTGAAAGAGAACGTG 1184
Db 3617 GATCAGCTCGAGAAAGTCAAGGCATTCGAGGAGAAAATTCGGCCTCTGAAAGAGAACGTG 3676
QY 1185 AGCCACGTCAATGACCTTGCTGCGCAGCTTACACTTTGGGATTCAGCTCTCACCGTAT 1244
Db 3677 AGCCACGTCAATGACCTTGCTGCGCAGCTTACACTTTGGGATTCAGCTCTCACCGTAT 3736
QY 1245 AACCTCAGCACTCTGGAAGACCTGAACACCCAGATGGAAGCTTTGTCAGGTGGCCGTCGAG 1304
Db 3737 AACCTCAGCACTCTGGAAGACCTGAACACCCAGATGGAAGCTTTGTCAGGTGGCCGTCGAG 3796
QY 1305 GACCGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGTCAGCATCTCAGCACATTT 1364
Db 3797 GACCGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGTCAGCATCTCAGCACATTT 3856
QY 1365 CTTTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTCGCAAAACAAAGTCCTAC 1424
Db 3857 CTTTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTCGCAAAACAAAGTCCTAC 3916
QY 1425 TATATCAACCAAGAGACTCAACAACTTGCTGGGAGAGAGCCATCCCAAAATGACAGAGCTCTAC 1484
Db 3917 TATATCAACCAAGAGACTCAACAACTTGCTGGGAGAGAGCCATCCCAAAATGACAGAGCTCTAC 3976
QY 1485 CAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAACCTC 1544
Db 3977 CAGTCTTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAACCTC 4036
QY 1545 CGAAGACTGCAGAAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTCAGCTGCATGTGATGCC 1604
Db 4037 CGAAGACTGCAGAAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTCAGCTGCATGTGATGCC 4096
QY 1605 TTGGACCAAGCACAACTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAAGATTATTAAT 1664
Db 4097 TTGGACCAAGCACAACTCAAGCAAAATGACCAAGCCCATGGATATCCTGCAAGATTATTAAT 4156
QY 1665 TGTTTGACCACTATTTATGACCGCTGGAGCAAGAGCACAAACAATTTGGTCAACGTCCT 1724
Db 4157 TGTTTGACCACTATTTATGACCGCTGGAGCAAGAGCACAAACAATTTGGTCAACGTCCT 4216
QY 1725 CTCTGCGTGGATATGTCTGTAAGTCTGTAATGTTTATGATACGGGAGCAACAGG 1784
Db 4217 CTCTGCGTGGATATGTCTGTAAGTCTGTAATGTTTATGATACGGGAGCAACAGG 4276
QY 1785 AGGATCCGTGCTCTTTTAAACTGGCATATTTCCCTGTGTAAGACATTTGGAA 1844
Db 4277 AGGATCCGTGCTCTTTTAAACTGGCATATTTCCCTGTGTAAGACATTTGGAA 4336
QY 1845 GACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCAGCGC 1904

Db 4337 GACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGC 4396
QY 1905 AGGCTGGCCCTCCTTCTGCAATGATCTCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCA 1964
Db 4397 AGGCTGGCCCTCCTTCTGCAATGATCTCTATCCAAATTCGAAGACAGTTGGGTGAAGTTGCA 4456
QY 1965 TCCTTTGGGGCAGTAACATTTAGCCCAAGTGTCCGGA 2001
Db 4457 TCCTTTGGGGCAGTAACATTTAGCCCAAGTGTCCGGA 4493

RESULT 13
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match 55.6%; Score 1112; DB 12; Length 3999;
Best Local Similarity 71.1%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 185; Indels 553; Gaps 4;
QY 1 GGCAGTTTCATTGATGGAGAGTGAAGTAACCTGGACCGTTATCAAAACAGCTTTAGAGAA 60
Db 1000 GGCAGTTTCATTGATGGAGAGTGAAGTAACCTGGACCGTTATCAAAACAGCTTTAGAGAA 1059
QY 61 GATATTATCGTGGCTTCTTTCTGCTGAGGACACATTCGACGACACAGGAGAGATTTCTAAT 120
Db 1060 GATATTATCGTGGCTTCTTTCTGCTGAGGACACATTCGACGACACAGGAGAGATTTCTAAT 1119
QY 121 GATCTGGAAGTGGTGAAGACCACTTCTACTCATGAGGGGTACATGATGGATTGACA 180
Db 1120 GATCTGGAAGTGGTGAAGACCACTTCTACTCATGAGGGGTACATGATGGATTGACA 1179
QY 181 GCCCATCAGGCGCGGTTGGTGAATATTCACAAATTTGGGAAGTAAGCTGATGGAAACAGGA 240
Db 1180 GCCCATCAGGCGCGGTTGGTGAATATTCACAAATTTGGGAAGTAAGCTGATGGAAACAGGA 1239
QY 241 AAATTATCAGAAAGATGAAGAACTGAAGTACAAAGACAGCATGAATCTCTAAATTCAGA 300
Db 1240 AAATTATCAGAAAGATGAAGAACTGAAGTACAAAGACAGCATGAATCTCTAAATTCAGA 1299
QY 301 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG 360
Db 1300 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG 1359
QY 361 GATCTCCAGATC-GAAACTGAAGAGTTGAATGATCGGCTAACAAAAACAGAGAAAGA 419
Db 1360 GATCTCCAGATCAGAAACTGAAGAGTTGAATGATCGGCTAACAAAAACAGAGAAAGA 1419
QY 420 ACAAGGAAAAATGGAGGAAGACCTCTTTGGACCTGATCTGAAGACCTFAAACGCCAAGTA 479
Db 1420 ACAAGGAAAAATGGAGGAAGACCTCTTTGGACCTGATCTGAAGACCTFAAACGCCAAGTA 1479
QY 480 CACAACATAGGTGCTTCAAGAAAGATCTAGAACACAGAACAGTCAAGGTCAATTCCTCTC 539
Db 1480 CACAACATAGGTGCTTCAAGAAAGATCTAGAACACAGAACAGTCAAGGTCAATTCCTCTC 1539

QY 540 ACTCACATGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTGGAA 599
Db 1540 ACTCACATGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTGGAA 1599
QY 600 GAACAACCTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAAAGCCGC 659
Db 1600 GAACAACCTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAAAGCCGC 1659
QY 660 TGGGTTCTTTTACAAGAC----- 677
Db 1660 TGGGTTCTTTTACAAGACCCAGCCTGACCTAGCTCCTGGAGTGACCACTATTGGAGCCTCT 1719
QY 678 ----- 677
Db 1720 CCTACTCAGACTGTTACTCTGTGTGACACAACTGTGTTACTAAGGAAACTGCCATCTCC 1779
QY 678 -----ATCCTTCTCAAAATGSCAACGT 698
Db 1780 AAACAGAAATGCCATCTTCCCTTGATGTTGGAGGTACCTACTACTAGATTACTGCAACAG 1839
QY 699 CTTACTGAAGAACAGTGCCTTTTATAGTGCATGGCTTTCAGAAAAAGAAAGATGCAGTGAAC 758
Db 1840 TTCCCCCTGGACCTGGAAAAGTTTCTTGCCTGGCTTACAGAAGCTGAAAACAACTGCCAAT 1899
QY 759 AAGATTCAACACACTGGCTTTA-----AAGATCAAAATGAAATGTTATCA 803
Db 1900 GTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAGACTCCAAGGGAGTAAAGAG 1959
QY 804 AGTCTTCAAAAAGTGGCGCTTTTAAAGCGGATCTAGAAAAGAAAAAGCAATCCATGGGC 863
Db 1960 CTGATGAACAATGGCAAGACTCCAAGGTGAATTTGAAGCTCACACAGATGTTTATPCAC 2019
QY 864 AACTGTATTACTCAAAACAGATCTTCTTCAACACTGAAGAATAAAGTCAAGTACCCAG 923
Db 2020 AACTGGATGAACACAGCCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTC 2079
QY 924 AAGACGGAAGCATGGCTGGATAACTTTGCCGGGTGTTGGGATAATTTAGTCCAAAACATT 983
Db 2080 CTGTACAAAGACGTTTGGATAACATGAACCTCAAGTGGAGTGAACITCGGAAAAAGTCT 2139
QY 984 GAAAAGAGTACAGCAC----- 999
Db 2140 CTCACATTAGTTCCTTATTTGGAAGCCAGTTCTGACCAGTGGAGCGTCTGCACCTTCT 2199
QY 1000 ----- 999
Db 2200 CTCAGGAACCTTCTGCTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCT 2259
QY 1000 ----- 999
Db 2260 ATTGGAGGCGACTTTCAGCAGCTTCAGAACAGAACGATGTACATAGSGCCTTCAAGAGG 2319
QY 1000 ----- 999
Db 2320 GAATTGAAAACATAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTG 2379
QY 1000 ----- 999
Db 2380 ACAGAGAGCCCTTGGAAAGGACTAGAGAAACTCTACCAGAGCCACAGAGAGCTGCCCTCT 2439
QY 1000 ----- 999
Db 2440 GAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACT 2499
QY 1000 -----AGACCCCTT 1007
Db 2500 GAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTT 2559
QY 1008 GARAGACTCCAGGAACCTTCAGAGGCCACCGATGAGCTGGACCTCAAGCTGCCCAAGCT 1067
Db 2560 GARAGACTCCAGGAACCTTCAGAGGCCACCGATGAGCTGGACCTCAAGCTGCCCAAGCT 2619
QY 1068 GAGTGATCAAGGATCCTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAAGAT 1127

Db 2620 GAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGAT 2679
QY 1128 CACCTCGAGAAAAGTCAAGGCACCTTCGAGGAGAAAATTGCGCCTCTGAAAAGAGACGTGAGC 1187
Db 2680 CACCTCGAGAAAAGTCAAGGCACCTTCGAGGAGAAAATTGCGCCTCTGAAAAGAGACGTGAGC 2739
QY 1188 CACGTCAATGACCTTCTGCTGCCAGCTTACCACATTGGGGCATTCAGCTCTCACCGTATAAC 1247
Db 2740 CACGTCAATGACCTTCTGCTGCCAGCTTACCACATTGGGGCATTCAGCTCTCACCGTATAAC 2799
QY 1248 CTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCGTCGAGGAC 1307
Db 2800 CTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCGTCGAGGAC 2859
QY 1308 CGAGTCAGCAGCTGCATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTT 1367
Db 2860 CGAGTCAGCAGCTGCATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTT 2919
QY 1368 TCCACGTCTGTCCAGGTCCTGCGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTAT 1427
Db 2920 TCCACGTCTGTCCAGGTCCTGCGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTAT 2979
QY 1428 ATCAACCAAGGACTCAAAACAACTTGTGGGACCATCCCAAAATGACAGAGCTCTACCAG 1487
Db 2980 ATCAACCAAGGACTCAAAACAACTTGTGGGACCATCCCAAAATGACAGAGCTCTACCAG 3039
QY 1488 TCTTTAGCTACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGA 1547
Db 3040 TCTTTAGCTACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGA 3099
QY 1548 AGACTGCAGAAGGCCCTTGTGTTGGATCTCTTGAGCCTGTGAGTGCATGTGATGCCCTTG 1607
Db 3100 AGACTGCAGAAGGCCCTTGTGTTGGATCTCTTGAGCCTGTGAGTGCATGTGATGCCCTTG 3159
QY 1608 GACCAGCACAACTCAAGCAAAATGACCAGCCCATGGGATATCTTCAGATTATTAATTGT 1667
Db 3160 GACCAGCACAACTCAAGCAAAATGACCAGCCCATGGGATATCTTCAGATTATTAATTGT 3219
QY 1668 TTGACCACTATTATGACCGCCTGGAGCAAGAGACACAACAAATTTGGTCAACGTCCTCTC 1727
Db 3220 TTGACCACTATTATGACCGCCTGGAGCAAGAGACACAACAAATTTGGTCAACGTCCTCTC 3279
QY 1728 TCGTGGATATGTCTGAACCTGGCTGCTGAATGTTATGATACGGGACGAAACAGGGAGG 1787
Db 3280 TCGTGGATATGTCTGAACCTGGCTGCTGAATGTTATGATACGGGACGAAACAGGGAGG 3339
QY 1788 ATCCGTGCTCTGCTTTTAAACCTGGCATCATTTCCCTGTGTAAGCACATTTGGAAGAC 1847
Db 3340 ATCCGTGCTCTGCTTTTAAACCTGGCATCATTTCCCTGTGTAAGCACATTTGGAAGAC 3399
QY 1848 AAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACACAGGATTTGTGACCAAGCCAGG 1907
Db 3400 AAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACACAGGATTTGTGACCAAGCCAGG 3459
QY 1908 CTGGGCTCCTTCTGATGATTTCTATCCAAATTCACAGACAGTTGGGTGAAGTTGCATCC 1967
Db 3460 CTGGGCTCCTTCTGATGATTTCTATCCAAATTCACAGACAGTTGGGTGAAGTTGCATCC 3519
QY 1968 TTTGGGGCAGTAACATTGAGCCAGTGTCCGGA 2001
Db 3520 TTTGGGGCAGTAACATTGAGCCAGTGTCCGGA 3553

RESULT 14

US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312a1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142

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; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match      55.6%; Score 1112; DB 12; Length 4966;
Best Local Similarity 71.1%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 185; Indels 553; Gaps 4;

QY      1  GGCAGTTCATGTGAGAGTGAAGTAAACCTGGACCGTTATCAAACAGCTTTAGAAGAA 60
Db      1757 GGCAGTTCATGTGAGAGTGAAGTAAACCTGGACCGTTATCAAACAGCTTTAGAAGAA 1816

QY      61  GTATTATCGGGCTTCTTCTGCTGAGGACACATTCGAAGCACACAGGAGAGATTCTTAAT 120
Db      1817 GTATTATCGGGCTTCTTCTGCTGAGGACACATTCGAAGCACACAGGAGAGATTCTTAAT 1876

QY     121  GATGTGGAAGTGGTGAAGACACCAGTTTCATACTCATGAGGGGTACATGATGGATTGACA 180
Db     1877 GATGTGGAAGTGGTGAAGACACCAGTTTCATACTCATGAGGGGTACATGATGGATTGACA 1936

QY     181  GCCCATCAGGGCCGGTTCGTAATATTTCTACAATTTGGGAAGTAAGTGATTGGAACAGGA 240
Db     1937 GCCCATCAGGGCCGGTTCGTAATATTTCTACAATTTGGGAAGTAAGTGATTGGAACAGGA 1996

QY     241  AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCTAAATTCAGA 300
Db     1997 AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCTAAATTCAGA 2056

QY     301  TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG 360
Db     2057 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG 2116

QY     361  GATCTCCAGAAATC-GAAACTGAAAGAGTGAATGACTGGCTAACAAAAACAGAGAAAGA 419
Db     2117 GATCTCCAGAAATCAGAAACTGAAAGAGTGAATGACTGGCTAACAAAAACAGAGAAAGA 2176

QY     420  ACAAGGAAATGGAGGAGAGAGCCCTCTTGACCTGATCTTGAAGACCTAAACGCCAAGTA 479
Db     2177 ACAAGGAAATGGAGGAGAGAGCCCTCTTGACCTGATCTTGAAGACCTAAACGCCAAGTA 2236

QY     480  CAACAACATTAAGGTGCTTCAAGAAGATCTAGAACACAAGTCAAGTCAAGGTCAATCTCTC 539
Db     2237 CAACAACATTAAGGTGCTTCAAGAAGATCTAGAACACAAGTCAAGGTCAATCTCTCTC 2296

QY     540  ACTCACATGGTGGTGGTAGTGTGATGATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 599
Db     2297 ACTCACATGGTGGTGGTAGTGTGATGATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 2356

QY     600  GAACAACCTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCGC 659
Db     2357 GAACAACCTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCGC 2416

QY     660  TGGGTTCTTTTACAAGAC----- 677
Db     2417 TGGGTTCTTTTACAAGACCGCCCTGACCTAGCTCCTGSACTGACCCTATTGGAGCCCTCT 2476

QY     678  ----- 677
Db     2477 CCTACTCAGACTGTTACTCTGGTGACACAAACCTGTGGTTACTAAGGAAACTGCCATCTCC 2536

QY     678  -----ATCCTTCTCAAATGGCAACGT 698
Db     2537 AAACAGAAATGCCATCTTCCTTGATGTGGAGGTACCTACTCATAGATTACTGCAACAG 2596

QY     699  CTTACTGAAGAACAGTGCCTTTTGTAGTCATGGCTTTCAGAAAAAAGAAAGATGCAGTGAAC 758
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Db      2597 TTCCCTCGGACCTGAAAAAGTTTCTTCCCTGCTTACAGAACTGAAACAACTGCCAAT 2656
QY      759 AAGATTCAACACAACTGGCTTTA-----AAGATCAAAATGAAATGTTATCA 803
Db      2657 GTCCTACAGGATGCTACCCGTAAGGAAAGGCTCTAGAAAGACTCCAAGGGAGTAAAGAG 2716
QY      804 AGTCITCAAAAAACCTGGCCGTTTTTAAAAAGCGGATCTAGAAAAAGAAAAAGCAATCCATGGGC 863
Db      2717 CTGATGAAACAATGGAAGACCTCCAAGGTGAATTTGAAGCTCACACAGATGTTTATCAC 2776
QY      864 AAACCTGATTCACCTCAAAACAAGATCTTTCTTTCAACACTGAAGAATAAGTCACTGACCCAG 923
Db      2777 AACCTGGATGAAACAGCCCAAAATAATCTTGAGATCCCTGGAGGTTCCGATGATGCAGTC 2836
QY      924 AAGACGGAAGCATGCTGGATAACTTTGCCCGGTGTTGGGATAAATTTAGTCCAAAAAATTT 983
Db      2837 CTGTTACAAAGACGTTTGGATAACATGAACTTCAAGTGGAGTGAACCTTCGGAAAAAAGTCT 2896
QY      984 GAAAAGAGTACAGCAC----- 999
Db      2897 CTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAAGTGGAAAGCGTCTGCACCTTTCT 2956
QY     1000 ----- 999
Db      2957 CTGCAGGAACCTTCTGCTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCT 3016
QY     1000 ----- 999
Db      3017 ATTGGAGCGGACTTTCCAGACGTTTCAGAAGCAGAACGATGTACATAGGGCCCTTCAAGAG 3076
QY     1000 ----- 999
Db      3077 GAATTGAAAAACTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTG 3136
QY     1000 ----- 999
Db      3137 ACAGACGAGCCTTTTGGAAAGGACTAGAGAAAACTTACCAGGAGGCCAGAGAGCTGCCTCCT 3196
QY     1000 ----- 999
Db      3197 GAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACT 3256
QY     1000 -----AGACCCCTT 1007
Db      3257 GAGTGGAAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTT 3316
QY     1008 GAAAGACTCCAGGAACTTCAAGAGGCCACGGATGAGCTGGACTCAAGCTGCGCCCAAGCT 1067
Db      3317 GAAAGACTCCAGGAACTTCAAGAGGCCACGGATGAGCTGGACTCAAGCTGCGCCCAAGCT 3376
QY     1068 GAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGAT 1127
Db      3377 GAGGTGATCAAGGGATCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGAT 3436
QY     1128 CACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAGAAATTTGCCCTCTGAAAGAGAACGTGAGC 1187
Db      3437 CACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAGAAATTTGCCCTCTGAAAGAGAACGTGAGC 3496
QY     1188 CACGTCATGACCTTCTCGCCAGTTACCACCTTTGGGCAATTCAGCTCTCACCGTATAAC 1247
Db      3497 CACGTCATGACCTTCTCGCCAGTTACCACCTTTGGGCAATTCAGCTCTCACCGTATAAC 3556
QY     1248 CTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCGTCGAGGAC 1307
Db      3557 CTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGAGGTGGCGTCGAGGAC 3616
QY     1308 CGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTCACGACTTTCTT 1367
Db      3617 CGAGTCAGGCAGCTGCATGAAGCCACAGGGACTTTGGTCCAGCATCTCACGACTTTCTT 3676
QY     1368 TCCACCTCTGTCCAGGTCCTTGGGAGAGAGCCATCTCGCCAAAAAAGTGCCTTACTAT 1427
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Db	3677	TCCACGTCGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTCGCCCTACTAT	37336
QY	1428	ATCAACCACGAGACTCAACAACACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAG	1487
Db	3737	ATCAACCACGAGACTCAACAACACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAG	3796
QY	1488	TCCTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGA	1547
Db	3797	TCCTTAGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGA	3856
QY	1548	AGACTGCAGAAAGGCCCTTTGCTTGGATCTCTTGAGCCCTCAGCTGCATGTGATGCCCTG	1607
Db	3857	AGACTGCAGAAAGGCCCTTTGCTTGGATCTCTTGAGCCCTCAGCTGCATGTGATGCCCTG	3916
QY	1608	GACCAGCAACACCTCAAGCAAAATGACCAGCCCATGGATATCCTGCAGATTATTAATGT	1667
Db	3917	GACCAGCAACACCTCAAGCAAAATGACCAGCCCATGGATATCCTGCAGATTATTAATGT	3976
QY	1668	TTGACCACATATTTATGACCGCCTGGAGCAAGAGCACACAATTTGGTCAACGTCCCTCTC	1727
Db	3977	TTGACCACATATTTATGACCGCCTGGAGCAAGAGCACACAATTTGGTCAACGTCCCTCTC	4036
QY	1728	TGCGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGG	1787
Db	4037	TGCGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGATACGGGACGAACAGGGAGG	4096
QY	1788	ATCCGTGTCTGTCTTTTAAAACCTGGCATCATTTCCCTGTGTAAAGCACATTTTGAAGAC	1847
Db	4097	ATCCGTGTCTGTCTTTTAAAACCTGGCATCATTTCCCTGTGTAAAGCACATTTTGAAGAC	4156
QY	1848	AAGTACAGATACCTTTTTCBAGCAAGTGGCAAGTTCAACACGATTTTGTGACCAGCGCAGG	1907
Db	4157	AAGTACAGATACCTTTTTCBAGCAAGTGGCAAGTTCAACACGATTTTGTGACCAGCGCAGG	4216
QY	1908	CTGGGCCCTCTCTGCATCATTTCTATCCAAAATTCBAGCAGTTGGGTGAAGTTGCATCC	1967
Db	4217	CTGGGCCCTCTCTGCATCATTTCTATCCAAAATTCBAGCAGTTGGGTGAAGTTGCATCC	4276
QY	1968	TTTGGGGGAGTAACATTGAGCCCAAGTGTCCGGA	2001
Db	4277	TTTGGGGGAGTAACATTGAGCCCAAGTGTCCGGA	4310

RESULT 15

US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Db	1841	GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAGAGATTTCTTAAT	1900
QY	121	GATGTGGAAGTGGTGAAGACACAGTTTCATACTCATGAGGGGTACATGATGGATTGACA	180
Db	1901	GATGTGGAAGTGGTGAAGACACAGTTTCATACTCATGAGGGGTACATGATGGATTGACA	1960
QY	181	GCCCATCAGGCCCGGTTGGTAATATTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGA	240
Db	1961	GCCCATCAGGCCCGGTTGGTAATATTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGA	2020
QY	241	AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCTAAATTCAGA	300
Db	2021	AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCTAAATTCAGA	2080
QY	301	TGGGAATGCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG	360
Db	2081	TGGGAATGCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG	2140
QY	361	GATCTCCAGRATC-GAAACTGAAAGAGTTGAATGACTGGCTAACAAAAACAGAAGAAGA	419
Db	2141	GATCTCCAGRATCAGAAACTGAAAGAGTTGAATGACTGGCTAACAAAAACAGAAGAAGA	2200
QY	420	ACAAGGAAATGGAGGAAGAGCCCTCTTGGACCTGATCTGAAGACCTTAAACGCCAAGTA	479
Db	2201	ACAAGGAAATGGAGGAAGAGCCCTCTTGGACCTGATCTGAAGACCTTAAACGCCAAGTA	2260
QY	480	CAACAACATAAGGTGCTTCAAGAAAGATCTAGAACAAGACAAGTCAGGGTCAATCTCTC	539
Db	2261	CAACAACATAAGGTGCTTCAAGAAAGATCTAGAACAAGACAAGTCAGGGTCAATCTCTC	2320
QY	540	ACTCACATGGTGGTGGTAGTGTGATGAATCTAGTGGAGATCACGCAACTGCTGTTGAA	599
Db	2321	ACTCACATGGTGGTGGTAGTGTGATGAATCTAGTGGAGATCACGCAACTGCTGTTGAA	2380
QY	600	GAACAACCTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGC	659
Db	2381	GAACAACCTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGC	2440
QY	660	TGGGTTCTTTTACAAGAC-----	677
Db	2441	TGGGTTCTTTTACAAGACCGCCTGACCTAGCTCCTGGACTGACCACCTATTGGAGCCTCT	2500
QY	678	-----	677
Db	2501	CCTACTCAGACTGTTACTCTGGTGACACAACTGTGGTTACTAAGAAACTGCCATCTCC	2560
QY	678	-----ATCCTTCTCAAAATGGCAAGT-----	698
Db	2561	AAACTAGAAATGCCATCTCTCTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAG	2620
QY	699	CTTACTGAAGAACAGTGCCTTTTATGTGATGGCTTTCAGAAAAAGAGATGCAGTGAAC	758
Db	2621	TTCCCCCTGGACCTGGAAGAAGTTCTTGCTGGCTTACAGAAGCTGAAACAACCTGCCAAT	2680
QY	759	AAGATTACACAACACTGGCTTTA-----AAGATCAAAATGAAATGTTATCA	803
Db	2681	GTCTCTACAGGATGCTACCCCTAAGGAAAGGCTCCTAGAGACTCCAAGGGAGTAAAGAG	2740
QY	804	AGTCTTCAAAAACTGGCCGTTTAAAGCCGATCTAGAAAAAGAAAAAGCAATCCATGGGC	863
Db	2741	CTGATGAACAATGGCAAGACCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAC	2800
QY	864	AAACTGTATCTACTCAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAGTGACCCAG	923
Db	2801	AACCTGGATGAACAACAGCCAAAAAATCCTGAGATCCCTGGGAAGTTCCGATGATGCAGTC	2860
QY	924	AAGACGGAAGCATGGCTGATAACTTTGCCCGGTGTGGGATAAATTTAGTCCAAAACTT	983
Db	2861	CTGTTACAAGACAGTTTGGATAACATGAACTTCAAGTGGAGTGAACCTCGGAAAAAGTCT	2920
QY	984	GAAAGAGTACAGCAC-----	999

Db 2921 CTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGTGACCAAGTGGAAAGCGTGTGCACCTTTCT 2980
QY 1000 ----- 999
Db 2981 CTGCAGAACTTCRGGTGTGGCTACAGCTGAAGATGAATTAAGCCGSCAGGCACT 3040
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Db 3041 ATTGAGCGGACTTCCAGCAGTTCAGAAGCAGAACGATGTACATAGGSCCTTCAAGAGG 3100
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Db 3101 GAATTGAAAACATAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTTCTG 3160
QY 1000 ----- 999
Db 3161 ACAGAGCAGCCTTTGGAAGGACTAGAGAAAACHTACAGGAGCCCCAGAGAGCTGCCTCCT 3220
QY 1000 ----- 999
Db 3221 GAGGAGAGCCCAAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACT 3280
QY 1000 -----AGACCCCT 1007
Db 3281 GAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCT 3340
QY 1008 GAAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGGAOCTCAAGCTGCGCCCAAGCT 1067
Db 3341 GAAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGGAOCTCAAGCTGCGCCCAAGCT 3400
QY 1068 GAGGTGATCAAGGGATCCTGGCAGSCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGAT 1127
Db 3401 GAGGTGATCAAGGGATCCTGGCAGSCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGAT 3460
QY 1128 CACCTCGAGAAAAGTCAAGGCACTTCGAGGAGAAATGCGCCCTGAAAGAGAACGTGAGC 1187
Db 3461 CACCTCGAGAAAAGTCAAGGCACTTCGAGGAGAAATGCGCCCTGAAAGAGAACGTGAGC 3520
QY 1188 CACGTCAATGACCTTGTGCGCCAGCTTACCACCTTGGGCATTCAGCTCTCACCGTATAAC 1247
Db 3521 CACGTCAATGACCTTGTGCGCCAGCTTACCACCTTGGGCATTCAGCTCTCACCGTATAAC 3580
QY 1248 CTCAGCACTCTGGAAGACCTGAACACCAGATGGAGCTTCTGAGGTGGCCGTCGAGGAC 1307
Db 3581 CTCAGCACTCTGGAAGACCTGAACACCAGATGGAGCTTCTGAGGTGGCCGTCGAGGAC 3640
QY 1308 CGAGTCAGGCAGCTGCATGAAGCCACAGGGACITTTGGTCCAGCATCTCAGCACITTTCTT 1367
Db 3641 CGAGTCAGGCAGCTGCATGAAGCCACAGGGACITTTGGTCCAGCATCTCAGCACITTTCTT 3700
QY 1368 TCCACGTCTGTCCAGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTAT 1427
Db 3701 TCCACGTCTGTCCAGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTAT 3760
QY 1428 ATCAACCAGAGACTCAAPCAACTTGTCTGGACCAATCCCAAAATGACAGAGCTCTACCAG 1487
Db 3761 ATCAACCAGAGACTCAAPCAACTTGTCTGGACCAATCCCAAAATGACAGAGCTCTACCAG 3820
QY 1488 TCTTTAGCTGACCTGAATAATGTTCAGATCTCAGCTTATAGGAGTCCCATGAACTCCGA 1547
Db 3821 TCTTTAGCTGACCTGAATAATGTTCAGATCTCAGCTTATAGGAGTCCCATGAACTCCGA 3880
QY 1548 AGACTGCAGAGAGGCCCTTGTCTTGGATCTTTGAGCTGTGAGCTGTGATGCGCTTG 1607
Db 3881 AGACTGCAGAGAGGCCCTTGTCTTGGATCTTTGAGCTGTGAGCTGTGATGCGCTTG 3940
QY 1608 GACCAGCACACCTCAAGCAAAAATGACCAGGCCCATGGATATCTCAGATTAATAATTGT 1667
Db 3941 GACCAGCACACCTCAAGCAAAAATGACCAGGCCCATGGATATCTCAGATTAATAATTGT 4000
QY 1668 TTGACCACCTATTATGACCGCCTGGAGCAAGAGCACAACAATTTGGTCAACGTCCTCTC 1727
Db 4001 TTGACCACCTATTATGACCGCCTGGAGCAAGAGCACAACAATTTGGTCAACGTCCTCTC 4060

QY 1728 TGGGTGGATATGTGTCTCAACTGGCTGCTGAATCTTATGATACGGGACGAAACAGGGAGG 1787
Db 4061 TGGGTGGATATGTGTCTCAACTGGCTGCTGAATCTTATGATACGGGACGAAACAGGGAGG 4120
QY 1788 ATCCGTGCTCCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGAC 1847
Db 4121 ATCCGTGCTCCTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGAC 4180
QY 1848 AAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGG 1907
Db 4181 AAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGCGCAGG 4240
QY 1908 CTGGGCTCCTTCTGCAATGATTTCTATCCAAATTTCCAAGACAGTTGGGTGAAGTTGCATCC 1967
Db 4241 CTGGGCTCCTTCTGCAATGATTTCTATCCAAATTTCCAAGACAGTTGGGTGAAGTTGCATCC 4300
QY 1968 TTTGGGGCAGTAACATTTGAGCCCAAGTGTCCGGA 2001
Db 4301 TTTGGGGCAGTAACATTTGAGCCCAAGTGTCCGGA 4334

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